

“The secret of getting ahead is getting started.”

— Mark Twain

A Study of Ordered Gene Problems Featuring DNA Error Correction and DNA Fragment Assembly with a Variety of Heuristics, Genetic Algorithm Variations, and Dynamic Representations

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Abstract

Ordered gene problems are a very common classification of optimization problems. Because of their popularity countless algorithms have been developed in an attempt to find high quality solutions to the problems. It is also common to see many different types of problems reduced to ordered gene style problems as there are many popular heuristics and metaheuristics for them due to their popularity.

Multiple ordered gene problems are studied, namely, the travelling salesman problem, bin packing problem, and graph colouring problem. In addition, two bioinformatics problems not traditionally seen as ordered gene problems are studied: DNA error correction and DNA fragment assembly. These problems are studied with multiple variations and combinations of heuristics and metaheuristics with two distinct types or representations. The majority of the algorithms are built around the Recentering-Restarting Genetic Algorithm.

The algorithm variations were successful on all problems studied, and particularly for the two bioinformatics problems. For DNA Error Correction multiple cases were found with 100% of the codes being corrected. The algorithm variations were also able to beat all other state-of-the-art DNA Fragment Assemblers on 13 out of 16 benchmark problem instances.

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Chapter 1

Introduction

Evolutionary algorithms are popular metaheuristics that attempt to generate competitive candidate solutions to computationally intractable problems. Most evolutionary algorithms involve modifying permutations of elements commonly referred to as *genes*. Many problems exist with the objective of ordering these genes in some way to optimize some criteria. It is important to study these ordered gene style problems as they are a common type of optimization problem. In fact many other types of optimization problems are very easily reduced to these ordered gene problems. Fortunately there are many problems that exist that are inherently of this classification, the best known being the travelling salesman problem [59]. There are also many other problems which can be considered of this classification by developing clever representations. The bin packing problem [55] and vertex colouring variant of the graph colouring problem [64] are two examples of this.

Other problems which are not easily identified as an ordered gene problem can be converted to this classification with the correct tools and approach. DNA error correction can be treated as an ordered gene problem if one uses Side Effect Machines encoded as ordered genes to learn codewords [36]. With the appropriate paradigm one can also convert DNA Fragment Assembly into an ordered gene problem by taking the overlap-layout-consensus approach [101]. Although these problems can be tackled with other approaches and representations, it is beneficial to use the ordered gene technique, as many algorithms, including heuristics and metaheuristics, have already been shown to be effective with this model. Some of these algorithms include greedy algorithms, local search, and evolutionary algorithms.

Many times when studying a particular problem a researcher will use one specific algorithm and tune it to work optimally for the given problem domain. Unfortunately this approach is extremely limiting considering the large search spaces of these in-

tractable problems. Ideally one should study a large variety of algorithms in addition to conducting a *parameter sweep* - a thorough analysis of the available parameters. These algorithms should be exploited in every way possible to learn their strengths and weaknesses. By combining algorithms one can also greatly improve the effectiveness of an algorithm's traversal through the search space.

1.1 Problem Statement

There are multiple purposes to this research. One of the major goals is to study the properties of general ordered gene problems, namely the travelling salesman problem, the bin packing problem, and the vertex colouring variation of the graph colouring problem. Multiple types of algorithms (heuristics and metaheuristics) will be applied to these problems to determine how well they work and what advantages and disadvantages they have with respect to the style of problems. This analysis will help determine which approaches are significant.

Two additional bioinformatics problems, DNA Error Correction and DNA Fragment Assembly, are studied in this work to determine the effectiveness of converting these tasks into ordered gene style problems. The approach taken to convert these problems into the appropriate style is discussed in this work. Many of the same algorithms used to study the other ordered gene style problems will be used on these bioinformatics problems.

In earlier research the Recentering-Restarting Genetic Algorithm (RRGA) has been shown to work well on ordered gene problems with very high quality results. This work will use the RRGA on all problems to learn its strengths and how one could exploit its search through the fitness landscape. We also use many other styles of searches such as heuristics such as the nearest neighbour, minimal spanning tree, 2-Opt, and Lin-Kernighan. Ring species and the island model, two popular genetic algorithm variations are also studied in this work. Combinations of all of these strategies will be used to explore the search spaces and to gain an understanding of how one could utilize all benefits each algorithm provides.

This thesis also studies dynamic representations which are constantly changing throughout evolution. In fact, the RRGA inherently encourages dynamic representations. Two different representations which are altered at every restart will be studied. One representation is a direct representation and the other is an indirect transposition representation based on local search operators.

Since this research is not simply studying a particular algorithm but analyzing

the algorithms, representations, and problems, it is ideal to find the best possible result for the particular problem. To do so one would need to do more than a simple parameter sweep on one specific algorithm. This is why this research is trying many combinations of algorithms in addition to large parameter sweeps in an attempt to optimally work through a search space.

Sections of this thesis are heavily influenced by recently published works, specifically, sections presenting the RRGGA and the travelling salesman problem are influenced by [76], sections discussing DNA Error Correction are influenced by [75], and sections regarding DNA Fragment Assembly are influenced by [102] and [77].

1.2 Organization of Thesis

The remainder of this thesis is organized as follows:

Chapter 2 gives an overview of a collection of literature studied in preparation for this work. This includes information regarding heuristics, genetic algorithm variations, the Recentering-Restarting Genetic Algorithm, the travelling salesman problem, the one dimensional bin packing problem, the graph colouring problem (specifically one dimensional vertex colouring), DNA error correction, and a very thorough look at previous research related to the DNA Fragment Assembly Problem.

Chapter 3 discusses and gives a detailed description of the problems being studied along with the purpose of studying these particular problems: travelling salesman problem (small and large problems), one dimensional bin packing problem, the vertex colouring variation of the graph colouring problem, DNA error correction, and the DNA fragment assembly problem.

Chapter 4 presents the algorithms, and variations of these algorithms being used studied. This includes heuristics such as Nearest Neighbour, Minimal Spanning Trees, 2-Opt, and Lin-Kernighan. This also includes a description of Genetic algorithms and variations of them such as Ring Species, the Island Model, and the Recentering-Restarting Genetic Algorithm. A description of how these algorithms will be utilized and used with one another is detailed in this chapter. In addition the representations and fitness evaluations used by these algorithms for the respective problems is also discussed.

Chapter 5 presents the design of the experiments and the results obtained by the algorithms on all problems studied. In addition to the results, a discussion is presented detailing the interpretation of the results and possible implications. Minor conclusions are also given in this chapter.

Chapter 6 summarizes the research done and gives major conclusions. Possible future work is outlined in this section regarding the problems and algorithms studied.

Appendices are also included in this thesis. These appendices contain tables summarizing results and graphs that present the data from a different point of view. These tables summarize all results obtained by each algorithm on each problem. These appendices are supplementary to this work.

Chapter 2

Problem Descriptions

This chapter gives a detailed description of the problems studied, namely the travelling salesman problem (Section 2.1), the bin packing problem (Section 2.2), the graph colouring problem (Section 2.3), DNA error correction (Section 2.4), and the DNA fragment assembly problem (Section 2.5).

2.1 Travelling Salesman Problem

The travelling salesman problem (TSP) was introduced in the 1800s by Hamilton and Kirkman, but the problem was not mathematically formalized until the 1930s by Menger [1] [129].

The TSP, a problem closely related to the Hamiltonian-Cycle Problem, is a well known combinatorial optimization problem that is identified as being NP-hard. An instance with n cities has $(n - 1)!/2$ possible permutations [59]. This problem is defined as follows: given a set of cities with their relative non-negative distances to one another, find the shortest path such that every city is visited exactly once and the end city is the same as the starting city [45]. In other words, given a complete undirected graph $G = (V, E)$ that has a non negative cost $c(u, v)$ for each edge $\in E$, the goal is to then find a Hamiltonian cycle of G such that the total cost (distance) is minimized [45].

The TSP has become widely used as a benchmark problem for combinatorial optimization algorithms. There exist many approximation algorithms that produce high quality solutions for the TSP including, but not limited to, the nearest neighbour algorithm, a variation of a minimum spanning tree that guarantees a tour whose length is no more than twice the length of the optimal tour, 2-Opt, and Lin-Kernighan. These algorithms will be discussed further in Chapter 4. Along with the approxima-

tion approaches many evolutionary algorithms have been applied to the TSP success. This comes to no surprise as evolutionary algorithms have been applied to many combinatorial optimization problems with significant results.

In 2001 DIMACS held an implementation challenge for the TSP and the website [2] archives many problem instances along with a results page which summarizes the best results obtained by many different types of algorithms. The problem instances are in TSPLib format and can ultimately be obtained from TSPLib [123]. The information gathered throughout this implementation challenge was recorded and published in [69] which can serve as a reference for benchmarks when exploring new optimization techniques.

This problem can be mathematically formalized as follows: given a permutation of cities c , minimize the total distance of the tour defined by c where the total distance D is defined as $D = (\sum_{i=0}^{n-1} \text{distance}(c_i, c_{i+1})) + \text{distance}(c_n, c_0)$.

A simple real world example of the TSP can be seen in Figure 2.1.

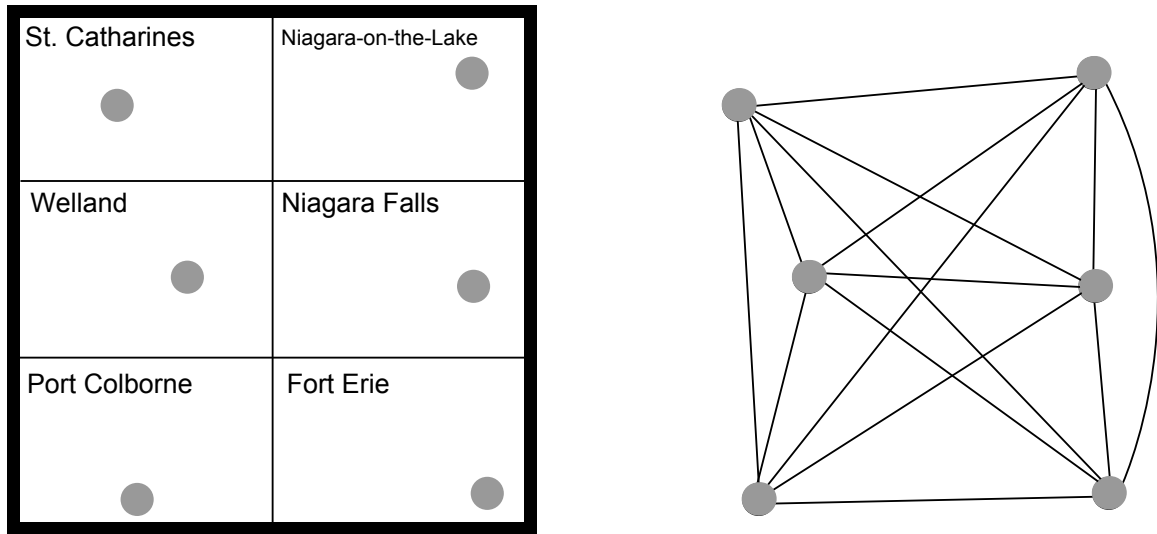


Figure 2.1: A simplified version of the Niagara Region. This example has 6 cities that would result in 60 possible orders in which one could visit each city $(n - 1)!/2$.

2.1.1 Small City Problems

In addition to these large instances a collection of small problem instances created by Dr. Daniel Ashlock ranging from 10 to 20 cities are being analyzed. These small city problem instances have known optimal solutions obtained with a brute force search. This allows for an in depth analysis as one can compare the results to the known optimal solution. These small instances will allow for an analysis that greatly differs

from the one that can be done on the large problem instances. For more detail on the purpose of the Small City Problem experiments refer to Chapter 6.1.

2.2 Bin Packing Problem

The bin packing problem (BPP) can be easily represented with an ordered gene (permutation). Specifically, the BPP is called a grouping ordered gene problem as the genes in the permutation need to be grouped together to calculate the fitness [55]. Unlike the TSP, fitness values for the BPP tend to be very sensitive to all genes that appear before a given gene instead of just the preceding gene.

The BPP is defined as follows: given a set of objects of different sizes, how could one pack them into containers (bins) such that the number of containers is minimized. The BPP is known to be NP-hard. Many heuristics have been created which produce reasonably good results in a relatively short amount of time. One of the popular heuristics for this problem is the *first fit algorithm* which places each object into the first bin in which it would fit. If no bin has sufficient size, then an additional bin is added. This algorithm is no worse than twice the ceiling of the sum of the sizes of the objects [141]. This basic heuristic is particularly noteworthy as it is an ideal algorithm for calculating the fitness values of a permutation of objects.

There are variations of the BPP which increase the number of dimensions that are considered. In this work only the one dimensional BPP is being considered as it is ideal for demonstrating and evaluating algorithms. It is interesting to note that the BPP is a special case of the stock cutting problem [127]. This problem can be mathematically formalized as follows: Given bins of size V and a set of n objects of size s_1, s_2, \dots, s_n , group the objects into a number of bins B (G_1, G_2, \dots, G_B) such that the number of bins B required to pack the objects is minimized but satisfies the condition $\sum_{i \in G_k} s_i \leq V$ for all $k = 1, \dots, B$ and every object is used once and only once.

2.3 Graph Colouring Problem

The graph colouring problem (GCP), specifically the vertex colouring problem, is very similar to the BPP as it is an ordered gene problem that has its fitness value dependent on all genes before a given gene. Because of this algorithms that work well on the BPP tend to be applied to the GCP [53]. The GCP is identified as being NP-hard.

The problem is defined as follows: given a graph, colour each vertex such that no two adjacent vertices have the same colour. The goal is to minimize the *chromatic number* (the number of colours required). This problem has many practical applications such as determining a physical layout of objects, pattern matching, and scheduling.

In addition to the Vertex Colouring Problem the GCP may refer to Chromatic Colouring (counting the number of ways a graph can be coloured with a set chromatic number), Edge Colouring, and Total Colouring (a combination of vertex and edge colouring).

Similar to the BPP, there are many sophisticated algorithms that can produce optimal solutions for large instances of the GCP. In particular, there is a heuristic very similar to the greedy algorithm used for the BPP: given a set of vertices v_1, v_2, \dots, v_n assign the smallest available colour (based on some ordering) to v_i such that none of v_i 's neighbours has that colour. If no colour is available add an additional colour.

An example of a GCP Vertex Colouring Problem can be seen in Figure 2.2.

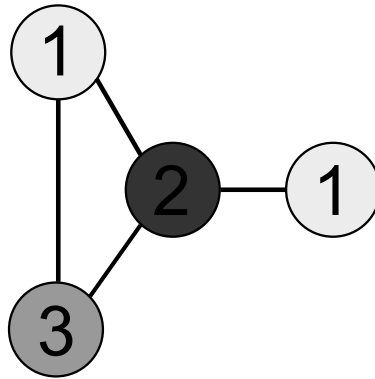


Figure 2.2: A graph with a chromatic number of 3. These colours are uniquely identified with a numerical value.

2.4 DNA Error Correction

When any type of information is transmitted or stored there is a chance that errors will be introduced into the data. An ideal situation would be to ensure that no mistakes are introduced during the process but this is unrealistic. To deal with errors introduced in data one can use *error correcting codes* [36].

An *error correcting code* is a collection of unique strings, called codewords, over a given alphabet. The process of error correction involves two important steps: De-

tecting errors in the received word and correcting it by assuming it is similar to a known codeword.

The *Hamming metric* could be used [68] but it is insufficient for DNA data as it can only correct substitution errors, not insertions or deletions. Instead, one could use *Levenshtein distance* [94] as it can correct insertions and deletions in addition to substitutions. This is also referred to as *edit distance* and is important for the study of bioinformatics as substitutions, insertions, and deletions frequently occur when sequencing DNA. Edit (or Levenshtein) distance between two strings is defined as the smallest number of single substitutions, insertions, and/or deletions that can translate one string to another.

An $(n, M, d)_q$ code is a code with M words defined on an alphabet of q symbols of length n with pair wise minimum distance between code words of d [21]. Only a small number of additional code words could be obtained by permitting word lengths to vary [126]. Since DNA has four base symbols (A, T, C , and G) the codes used must be quaternary; one could consider the alphabet to be 0, 1, 2, and 3 to represent A, T, C, and G.

2.5 DNA Fragment Assembly Problem

Since its introduction in 1977 Sanger sequencing has been used with great success and has been used in many sequencing projects. The amount of sequencing data available has greatly increased because of Sanger sequencing but unfortunately this approach has some drawbacks. Some of these shortcomings are dependencies on clone libraries for sample preparation (some genomes having regions that are not susceptible to cloning), and low throughput [39]. These drawbacks pushed scientists to produce new high-throughput whole-genome shotgun style methods of sequencing, and ultimately Next Generation Sequencing (NGS) technologies. One of the major benefits of these NGS technologies is that they are highly parallelized and can produce millions of sequences concurrently [70][42].

Initially NGS technologies produced much smaller fragments than traditional Sanger sequencing; these fragments are called *short reads*. Having a larger number of smaller fragments makes the assembly process orders of magnitude more difficult. The success of NGS technologies depends on the ability to assemble these fragments to produce continuous sequences for an entire chromosome.

Throughout the time DNA sequencing has been in existence two major methodologies have been studied: DNA Fragment Assembly, and DNA Sequence Assembly.

Originally DNA Fragment Assembly was the preferable approach as Sanger sequencing produced many reasonably sized reads. As NGS technologies became popular DNA Sequence Assembly became favoured as it excelled with the very high number of relatively small reads that NGS produced. However, as NGS became better and more efficient (as does most technology) the technologies produced longer reads than ever before. This allowed for DNA Fragment Assembly to come in favour once again as it is more appropriate for the current data available and will likely be relevant into the future as NGS progresses.

One of the main strategies for the *DNA fragment assembly problem* is the “overlap-layout-consensus” (OLC) approach which has been used with success in assembling fragments in large eukaryotic genomes [11][136][40].

There are many problems when it comes to reconstructing the original sequence from the fragments. Due to the nature of a four letter alphabet many fragments have overlaps that are a random coincidence. Figure 2.3 demonstrates the 5 possible orientations of an overlap between two fragments. Sequencing machines, although fast, produce errors, which makes it difficult to find actual overlaps. Because of these sequencing errors specialized algorithms are required to determine the most likely overlaps. DNA has many repeated sections making DNA assembly difficult, and with shorter reads the higher the chance of fragmenting these repeats making it even more difficult to assemble properly. In addition, there is a high number of possible overlap combinations of fragments. In fact, it is the factorial of the number of fragments; the goal is to find the best one to obtain a sequence as close as possible to the original [101].

Figure 2.4 demonstrates the problems that arise when dealing with repeating sections. One would notice the repeating “ATT” in the sequence seen in the bottom of Figure 2.4. Consider the three fragments seen on the left of the figure. How do these three fragments align? There are many possible combinations of just these three fragments but all imply something very different. The alignment a) would result in “TATTATTA”, b) would produce “ATTATTATTA”, c) would be “ATTATTA”, and d) would produce “ATTATTATTATTA”. All alignments are valid but produce contigs of varying lengths.

A common method for DNA fragment assembly is to produce a permutation of *contigs* (partial sequences derived from fragments) with a very high overlap score. This approach is called overlap-layout-consensus which was very common with Sanger-data [107]. The OLC approach became less popular with the advent of NGS technologies as the read lengths were becoming much shorter and the number of fragments

Overlapping Fragments:

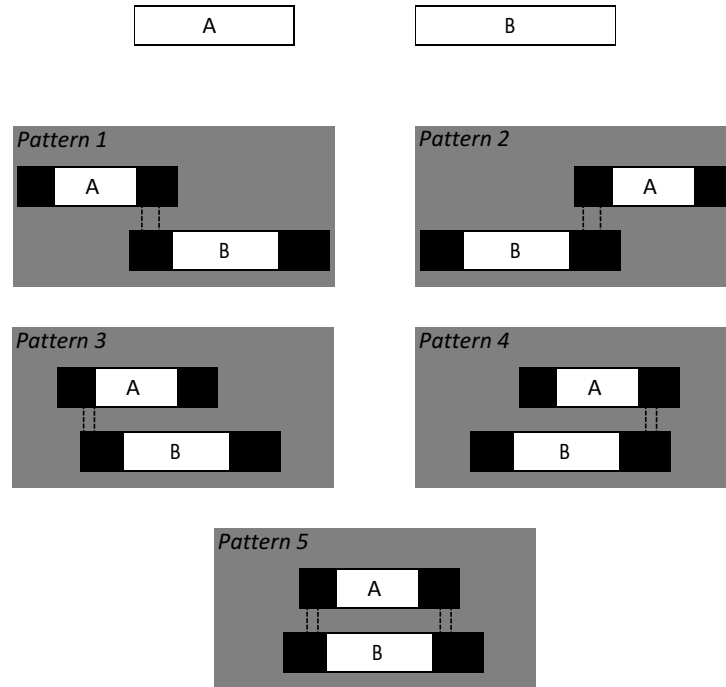


Figure 2.3: The five possible overlap orientations of two overlapping fragments [88]

grew to be too large. This led to the popularity of the De Bruijn graph approach [118] but as NGS technologies advanced the read lengths became much larger [52] meaning the OLC approach could be revisited. The *contigs* have several fragments with high overlap scores and are separated from other *contigs* by low overlap scores. Generally, experienced biologists are required to verify the proposed sequences and make any necessary changes to produce a sequence that is as close as possible to the real sequence.

The DNA fragment assembly problem is one of the last steps involved in DNA sequencing which is part of the Human Genome Project [92]. NGS technologies make several copies of the sequence and divide them into many small pieces. Once these fragments are produced the last step is to finally piece these fragments back together to create the original contiguous sequence called the *contig*. One of the most significant advantages to taking these NGS approaches is the speeds gained by parallelization, high level of automation, and scalability [110].

The *coverage* is defined as the sum of the bases that exist in all of the fragments over the total length of the target DNA sequence [110] (see equation 2.1). With a coverage of 10 [101] it would mean that on average one could expect to find 10 instances of a given base from a unique position from the original sequence within

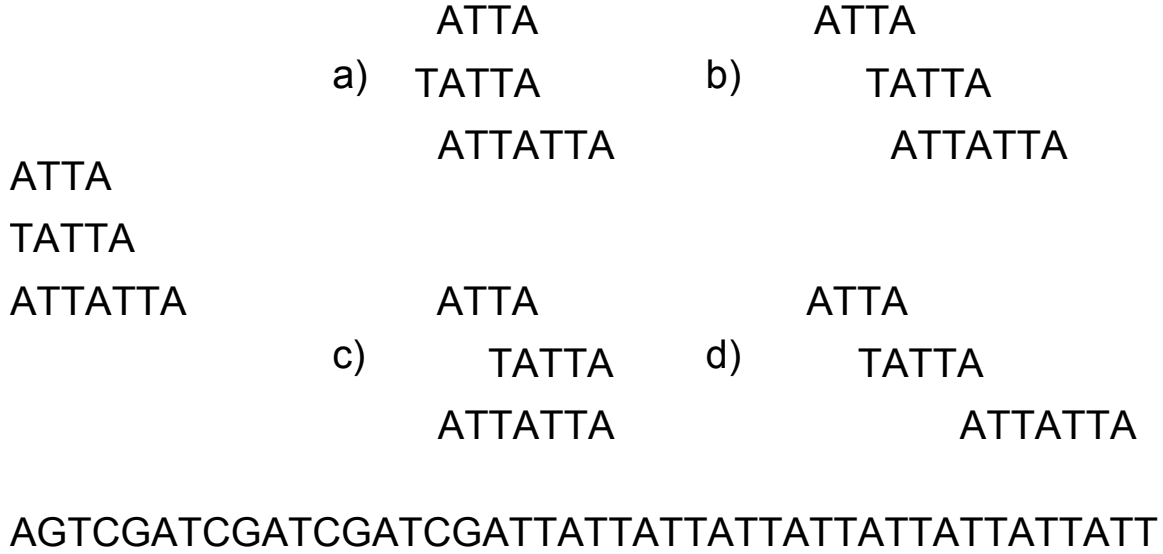


Figure 2.4: Example of problems that arise with repeating sections.

the collection of fragments. A coverage greater than 1 is necessary for the DNA fragment assembly problem as it ensures multiple fragments contain the same base. This implies that there is a good chance fragments will overlap, a requirement to generate an ordering of the fragments.

$$Coverage = \frac{\sum_{i=1}^{\text{num frags}} \text{Fragment Length } i}{\text{target sequence length}} \quad (2.1)$$

The process of assembling these fragments together into a *contig* consists of three steps in the overlap-layout-consensus approach. These steps are:

- **Overlap:** Compare each fragment to every other fragment generated by the sequencing process to calculate the largest match (overlap) between a suffix and prefix of two fragments. This overlap must exceed some predefined threshold to help eliminate non-significant and coincidental overlaps. During the sequencing phase it is not known which of the two (5' or 3') DNA strands each fragment comes from meaning the actual orientation of the fragments is unknown. When calculating this overlap score it is important to consider both orientations of the fragments. Normally one would want to find each fragment combination's largest overlap score with a dynamic programming algorithm applied to semi-global alignments such as Smith-Waterman [130].
- **Layout:** Determine an ordering of the fragments (a permutation) to maximize the overlap scores determined in the overlap phase. This is the most difficult stage of the OLC approach. This NP-hard problem [118] is made more difficult

by the fact that there are errors introduced during the sequencing process (normally 1%-5% will be incorrect) [113]), as well as redundancy, and the fact that the fragment can be in either orientation [65].

- **Consensus:** Determine the most likely DNA sequence based on results from the layout phase. This can be accomplished by applying a simple majority rule [110].

Layout Phase												
-	-	A	A	T	G	-	-	-	-	Fragment	1	
-	C	A	A	T	G	C	-	-	-	Fragment	2	
-	-	-	-	T	G	C	-	-	-	Fragment	3	
T	C	A	A	T	-	-	-	-	-	Fragment	4	
-	-	-	-	-	G	C	T	T	-	Fragment	5	
-	-	A	A	T	G	C	T	-	-	Fragment	6	
-	-	-	-	-	-	C	T	T	A	Fragment	7	
T	C	A	A	-	-	-	-	-	-	Fragment	8	

Consensus Phase												
T	C	A	A	T	G	C	T	T	A	1	Contig	

Figure 2.5: Layout and Consensus Phase Visualization [102].

Figure 2.5 presents a visualization of the layout process and the generation of the consensus *contig*. Note that the Consensus Phase is based on the sequenced fragments from the Layout Phase. In this figure a set of 8 fragments overlap perfectly. This layout depicted can be used to easily generate a potential *contig*.

Our focus on the FAP regarding the OLC approach is the layout phase, which is the most difficult part of the whole process. Each fragment must be used once and only once in a potential layout (a Hamiltonian path). The major goal of this work is to maximize the overlap score of a layout (permutation). By maximizing the overlap score a tighter and better quality *contig* can be generated.

Chapter 3

Literature Review

This chapter covers important related research reviewed in preparation for this research. Section 3.1 covers heuristics, Section 3.2 covers Genetic Algorithm (GA) variations, and Section 3.3 gives background research performed with the Recentering-Restarting Genetic Algorithm (RRGA). In addition, Sections 3.4, 3.5, and 3.6 cover the travelling salesman problem (TSP), the bin packing problem (BPP), and the graph colouring problem (GCP) respectively. Section 3.7 gives background work conducted on DNA error correcting codes and side effect machines and section 3.8 gives a thorough analysis of research for the DNA fragment assembly problem (FAP).

3.1 Heuristics

3.1.1 Nearest Neighbour

The nearest neighbour algorithm can be used to generate approximations for ordered gene problems [45]. The idea behind this greedy algorithm is to visit the vertex closest to the current vertex that has yet to be visited. The complexity of this algorithm is $\Theta(n^2)$ and it has been shown to produce a complexity of $\Theta(\log n)$ for travelling salesman problem instances that satisfy the triangle inequality [124]. The nearest neighbour algorithm was used with success as a starting point for local search operations such as 2-OPT, 3-OPT, and the Lin-Kernighan algorithm [82].

3.1.2 Minimal Spanning Tree

A minimum spanning tree (MST) is a sub-graph of a network that connects every vertex such that the sum of the weighted edges in the tree is minimized, i.e. its sum

of weighted edges is smaller than or equal to every possible spanning tree for the given graph [45] [78]. A path for an ordered gene problem can be created by simply performing a depth first traversal of the spanning tree and ensuring that no vertex is visited more than once. Unless otherwise required by the problem, the starting vertex can be arbitrary.

The run time complexity for the MST heuristic is $\Theta(v^2)$ - where v is the number of vertices - when using Prim's MST algorithm with an adjacency matrix [120] but can be reduced by using a binary heap or a Fibonacci heap. There is also a guarantee that this approximation algorithm returns a tour whose cost is no more than twice the cost of the optimal tour [45].

3.1.3 2-Opt

2-Opt is a simple local search algorithm proposed in 1958 by G.A. Croes [46]. The algorithm for 2-Opt can be seen in Algorithm 8. The first implementation was used for the travelling salesman problem but it can be applied to almost any ordered gene problem by simply altering the fitness function. For example, to make 2-Opt work on the bin packing problem, replace minimizing the distance travelled with minimizing the number of bins required to pack a given set of objects. Figure 3.1 depicts the process of the 2-Opt algorithm. 2-Opt works by dividing the ordered objects in half and reversing the order of one of the halves.

2-Opt can be generalized to k -Opt where instead of generating two halves, we generate k sub-sections which are then reordered. Figure 3.2 depicts an example of k -Opt with $k = 3$.

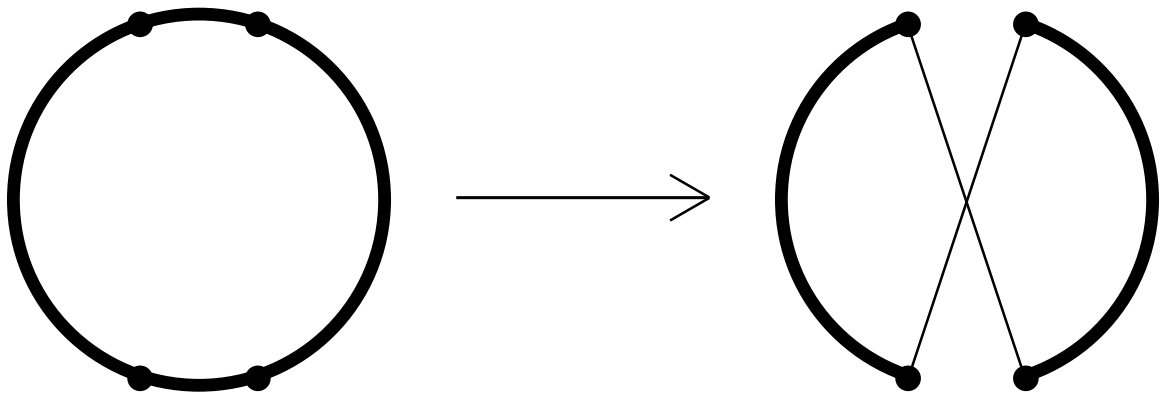


Figure 3.1: Illustration of 2-Opt [71]: the items are divided in half and the order of one of the two halves is reversed

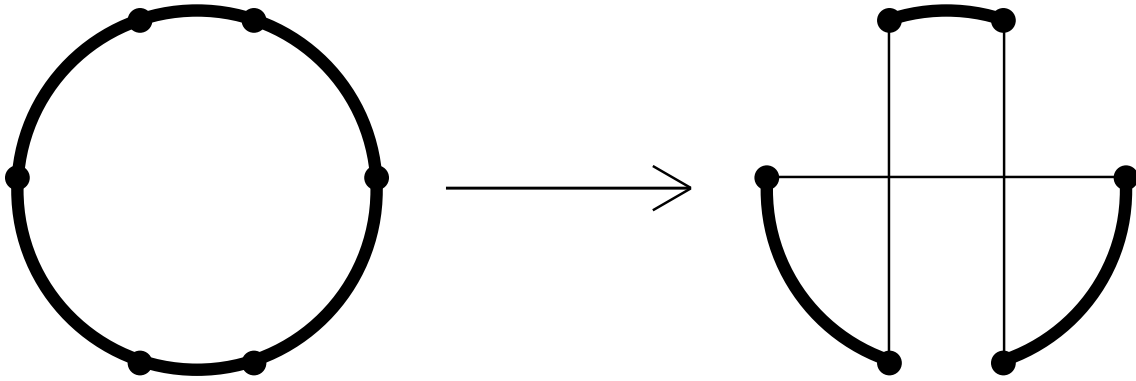


Figure 3.2: Illustration of k -Opt where $k = 3$ [71]

3.1.4 Lin-Kernighan

The Lin-Kernighan heuristic, developed by Shen Lin and Brian W. Kernighan in 1973, is one of the best heuristics for solving the travelling salesman problem and other ordered gene type problems [99][71]. The basis of the algorithm is similar to that of k -Opt in that it exchanges pairs of sub-tours. Lin-Kernighan uses an adaptive approach which determines how many elements need to be switched to find a shorter path (in the case of the travelling salesman problem) at run time.

The Lin-Kernighan algorithm is rather complicated and has many implementations. The implementation that is being used in this thesis is by Helsgaun [71]. This implementation has multiple refinements to improve effectiveness and run times. These refinements include only allowing sequential exchanges requiring that provisional gains must be positive, limiting entries to 5 nearest neighbours, and stopping the search if the current tour is the same as the previous tour. For a detailed description of the algorithm refer to [71].

3.2 Genetic Algorithm Variations

3.2.1 Island Model

The island model is a popular extension for evolutionary algorithms that has been used many times with great success [137][138][66][57].

The island model is a parallel approach to evolutionary algorithms that evolve multiple sub-populations to ensure genetic diversity by allowing each sub-population

to traverse the search space along its own path. Periodically migrations are allowed between islands which promotes unique offspring by combining genetically different parents.

The island model is very popular due to its great success in run times, convergence speed, and high quality of solutions. The island model was found to be particularly useful for genetic programming due to its ability to reduce bloat, which ultimately yields large speed-ups [49].

3.2.2 Ring Species

Daniel Ashlock et al. have studied evolutionary algorithms that made use of ring species (ring evolution) with success [104][20][16][18].

The motivation for using these ring species in evolutionary algorithms is based on natural phenomenon; the differentiation of populations when they expand around geographical barriers [18]. These populations develop slight differences. Fertility rates drop as the distance between two populations increases until some threshold distance is met where the two populations cannot produce offspring.

In [18] two problems were used to study these ring species: robots performing the Tartarus task (pushing blocks towards walls to maximize the number of box sides touching a wall) and a self avoiding walk. The authors found that this method produced extremely significant results on both of the problems used and suggest this method of evolution for future studies in evolutionary computation.

3.3 Recentering-Restarting Genetic Algorithm

The Recentering-Restarting Genetic Algorithm (RRGA) was developed by Daniel Ashlock to promote genetic diversity and avoid local optima by providing a means to perform a sequential search through the fitness landscape [17][23][22][75][76]. This work included evolving epidemic networks to match epidemic profiles, prolong epidemic life, and maximize infection rate (all with the aid of diffusion characters [93]), evolving side effect machines for the use of decoding error codes correctly, and evolving permutations for the travelling salesman problem.

This RRGA avoids local optima by simply restarting the GA once convergence on a local optima has occurred. In order for this strategy to work a recentering must occur where the new population is created to be similar to the best member of the population before the restarting occurs but different enough that the search can

continue in other trajectories within the search space. Without the recentering the GA would more than likely find the same local optima that it did before each restart. In all cases where the RRGAs were implemented it was able to produce high quality results that outperformed multiple types of GAs which suggests that this strategy should be studied further.

3.4 Travelling Salesman Problem

The travelling salesman problem is one of the most popular ordered gene problems and has been studied a great number of times for its implications in theoretical computer science and operations research [82]. Many different approaches have been taken in an attempt to solve TSP instances such as heuristics like 2-Opt [46] and Lin-Kernighan [71], and metaheuristics such as genetic algorithms [76][78][32], Ant Colony Systems [51] [50], and Beehive algorithms [140][103]. In addition to these there are countless other techniques such as those that combine metaheuristics with local search to produce memetic algorithms [82].

Many of the previous works used a simple permutation of the cities which gives a very direct representation for our algorithms [60][78][76]. The total distance of the route specified by the permutation is taken as the fitness with the goal of minimizing this value. See Equation 3.1 for the popular fitness function used for the TSP (Note the sum of the distance between the last and first city).

$$Fitness = \left(\sum_{i=0}^{n-1} distance(city_i, city_{i+1}) \right) + distance(city_n, city_0) \quad (3.1)$$

3.5 Bin Packing Problem

The bin packing problem (BPP) is a very popular, simple to understand, ordered gene problem. Similarly to other combinatorial problems it has been studied vigorously with multiple different approaches including deterministic algorithms and metaheuristics.

3.5.1 A Branch-and-Cut-and-Price Algorithm for One-Dimensional Stock Cutting and Two-Dimensional Two-Stage Cutting

G. Belov and G. Scheithauer studied a Branch-and-cut-and-Price (BCP) algorithm for one and two-dimensional problems for the stock cutting problem (the bin packing problem is a special case of the stock cutting problem)[31]. In addition to these descriptions a collection of results for the benchmarks was also presented in this work. This BCP algorithm combines a branch-and-bound with column generation (branch-and-price) approach with a general-purpose Chvátal-Gomory cutting planes [44]. This work is of particular interest due to its detailed description of a collection of bin-packing benchmarks, namely the “hard-28” instances [127][55].

3.5.2 A Hybrid Grouping Genetic Algorithm for Bin Packing

An algorithm called the Grouping Genetic Algorithm (GGA) was developed by E. Falkenauer in 1996 [55]. This work discusses multiple crossover and mutation techniques that can be applied to “grouping style” ordered gene problems like the bin packing problem. Falkenauer argues that a representation of a basic permutation of the items to be packed is very redundant. Because of this a candidate solution does not follow one of Radcliffe’s six design principles, namely minimal redundancy [122].

For example:

- Chromosome 1: 0123456789
- Chromosome 2: 3210456789

In this situation if chromosome 1 is split up as 0123|45678|9 (bin 1 contains 0123, bin 2 contains 45678, and bin 3 contains 9) it would follow that chromosome 2 is split up as 3210|45678|9 (bin 1 contains 3210, bin 2 contains 45678, and bin 3 contains 9). In this example both chromosomes ultimately mean the same thing as both have elements 0, 1, 2, 3 in bin 1, elements 4, 5, 6, 7, 8 in bin 2, and element 9 in bin 3.

To eliminate this redundancy Falkenauer presents a representation that uses groups of elements as a single gene rather than a permutation of the elements to be packed. With this in combination with unique genetic operators Falkenauer was able to achieve optimal or near optimal results on all data sets studied. Falkenauer further suggests that this approach can be applied to many other grouping problems.

3.6 Graph Colouring Problem

3.6.1 Data Sets

The graph colouring problem is another popular ordered gene problem that has been studied thoroughly. There are multiple variations of this problem including single vertex colouring, edge colouring, and multi-colouring. There is a large set of benchmarks available for these problems, greatly ranging in difficulty. These benchmarks can be found at the website [67] and are widely used [112][111][43][144][64][74][96][105][48][81][38][37]. These benchmark problem instances are classified using the SteinLib classification [91]:

- NP-s: Less than a minute to solve (measured in seconds)
- NP-m: Less than an hour to solve (measured in minutes)
- NP-h: Less than a day to solve (measured in hours)
- NP-d: Less than a week to solve (measured in days)
- NP-w: Very long time to solve the problem (measured in weeks)
- NP-?: Instance is not solved or the time is unknown

The hosted instances were solved with the use of multiple algorithms including: DSATUR [33], GeCOL [67], and the Branch-and-Price algorithm used for stock-cutting [31]. In addition to hosting the benchmarks the website also presents details about these instances including the number of vertices, the number of edges, density, size of maximum clique, chromatic number (if available), upper bounds for the chromatic number, and lower bounds for the chromatic number.

3.6.2 Graph Coloring with Adaptive Evolutionary Algorithms

The paper written by Eiben et al. titled *Graph Coloring with Adaptive Evolutionary Algorithms* [53] presents a grouping evolutionary algorithm (from Falkenauer [55]) for vertex colouring. The algorithm for this work is shown in Algorithm 1. This is of particular interest due to the similarities with the approach taken on the bin packing problem seen in [55].

Algorithm 1 Grouping Genetic Algorithm [53]

```

Initialize population
Evaluate Population
while Stopping criteria is not met do
    Sort population using 2-tournament selection
    Apply Crossover to best  $N_c$  individuals
    Replace worst  $N_c$  individuals with offspring
    Mutate  $N_m$  randomly selected individuals from population
    Apply inversion to  $N_i$  randomly selected individuals from population
    Evaluate population
end while

```

3.6.3 A New Genetic Graph Coloring Heuristic

Croitoru et al. proposed a genetic algorithm variation for the graph colouring problem in [47]. Although they had success the part of the work that is of particular interest is the means by which they did fitness evaluation. The rule they followed was a basic greedy algorithm: given a permutation of the vertices in the graph assign colour 1 to the first vertex and for each remaining vertex sequentially assign the minimum colour number available that has not currently been assigned to any adjacent vertex. It is important to note that this method of evaluation has been implemented in later research elsewhere.

3.7 DNA Error Correction with Side Effect Machines

DNA error correction is a problem with the goal of correcting errors that may be found in *codewords* (decoding) [75]. What makes this problem different from the other problems studied in this work is that it is not traditionally a ordered gene problem. However this work uses Side Effect Machines (SEMs) - defined in Section 5.5.1 - for the purpose of decoding which makes the representation required similar to that of an ordered gene problem. SEMs have been used in many areas of bioinformatics such as polymerase chain reaction primers [24] [19], the “Barcode of Life” project [128], and the classification of retroviruses [27][28].

3.7.1 Edit Metric Decoding: A New Hope

The use of side effect machines for the purpose of decoding edit [95] codes was first examined by Brown et al. [35]. A very basic genetic algorithm was used to evolve SEMs. These SEMs receive error patterns to be ‘run’ through the SEM to produce a vector. Two different methods in which the SEMs were implemented: Single Classifier Machines and Fuzzy Classifiers.

Single Classifier Machine

The Single Classifier Machine (SCM), a specifically utilized SEM, produces a classification vector based on the error pattern received by the SCM. This classification vector is then compared via Euclidean distance to the classification of the proper codeword. In this case the codeword with the closest vector is considered the decoded error pattern [35].

Fuzzy Classification

Fuzzy classification was done by extending the SCM since SCMs store all the codeword’s classification vectors. Fuzzy classification is accomplished by sorting this list of error pattern’s classification vectors based on the distance to the correct codeword. This list of codewords is then simply compared to the received pattern using the Levenshtein distance until a distance less than or equal to the correction capacity of the code is found [35].

3.7.2 Decoding Algorithms Using Side-Effect Machines

Joseph Brown’s Masters Thesis [36] was a major expansion on the work done in [35] and introduced a method in which the complexity of each machine was reduced with the use of a hierarchal classification with the use of locking Side Effect Machines (LSEMs). The LSEMs employed in this work use multiple SEMs to create a tree structure for sub-classifications.

3.8 DNA Fragment Assembly Problem

There are many different algorithms that have been used for the different approaches to the Fragment Assembly Problem. These algorithms range from heuristics to meta-heuristics (evolutionary algorithms and other bio-inspired computation). Although

this problem has been studied, the field is still wide open due to difficulties with scaling up to real world organisms.

A variety of Genetic Algorithms have been used for the OLC approach in [116][117][89][56][100][88][114] and [13] along with other very similar algorithms [92][109][108][110]. Ant Colony Optimization (ACO) algorithms were also used with success for this approach in [106][143]. A local search method named PALS produced significant results for this problem [12]. A Beehive algorithm was also proposed for the Fragment Assembly Problem by Firoz et al. [58][121][83]. A Hybrid approach which combined and parallelized differential evolution and particle swarm optimization was implemented by Mallen-Fullerton and Fernandez-Anaya [101].

Other significant strategies which used de Bruijn graphs were proposed in [142][98].

A collection of relevant research is explored and summarized in this section.

3.8.1 DNA Sequence Assembly and Genetic Algorithms, New Results and Puzzling Insights

In 1995 Rebecca Parsons proposed a Genetic Algorithm (GA) for the Fragment Assembly Problem [116][117]. Parsons argues that some of the most important aspects to using a GA for this problem are problem representation, genetic operator selection, selection mechanism, and parameter tuning (population size, generations, etc.). Observations made in their previous work used what they called a sorted-order representation and a straightforward representation.

In [116] a straightforward permutation representation was used where each element in the chromosome corresponded to a DNA fragment. A specialized crossover designed for DNA fragment assembly developed by Starkweather et al. named the edge-recombination crossover was used [131]. This crossover emphasizes and preserves adjacency information instead of the order/position of the elements in the permutation and requires a small amount of overhead for an adjacency table. Three mutation operators were used in this work: a basic swap mutation, inversion, and transposition. Inversion and transposition are operated on whole contigs (a collection of fragments) instead of a single element in the permutation. Inversion simply reverses the order of the fragments and transposition moves a contig to a position between two other adjacent contigs. The fitness function used was an Eulerian path approach that simply sums the overlapping scores of the fragments in the order in which they appear in the permutation. The fitness function is shown in Equation 3.2, where n is the number of fragments. Note the similarity to that of equation 3.1 for the fitness of a

TSP problem instance.

$$Fitness = \sum_{i=0}^{n-2} Overlap_{frag_i, frag_{i+1}} \quad (3.2)$$

They had success with small datasets but lacked performance when applied to larger problem instances.

3.8.2 A Genetic Algorithm Approach to Solving DNA Fragment Assembly Problem

Shu-Cherng Fang et al. also proposed a GA for the Fragment Assembly Problem that did not take the Eulerian path approach to the problem [56]. There was no requirement that each fragment exists in each candidate solution to this problem. Although this approach still attempts to maximize the overlap scores the candidate solution lengths were strictly maintained as this approach assumes that the length of the target sequence is known.

For fitness evaluation it would also consider the number of bases in a chromosome not covered by a fragment in addition to the overlap scores. The crossover operator analyzed which fragments were not included in both parents and would swap these to produce the fragments and truncate the length of the chromosome if needed. This approach selected the best 1/3 of the population for reproduction.

The authors implemented an additional operator called compression which pieced all of the complete fragments in an individual together to remove the gaps (areas that are not part of an actual overlapping section or a fragment) introduced by the other operators. Refer to Figure 3.3 for an illustration of this process.

The proposed approach was efficient with very small instances of 100 bases.

3.8.3 Metaheuristics for the DNA fragment assembly problem

Gabriel Luque and Enrique Alba proposed a GA, cross generational elitist selection Heterogeneous recombination and Cataclysmic mutation (CHCH) algorithm, scattered search, and simulated annealing (a trajectory based method) approaches to this problem [100].

For the genetic algorithm the authors used an order crossover and the edge-recombination crossover which was also used by Parsons [116][117]. The CHC al-

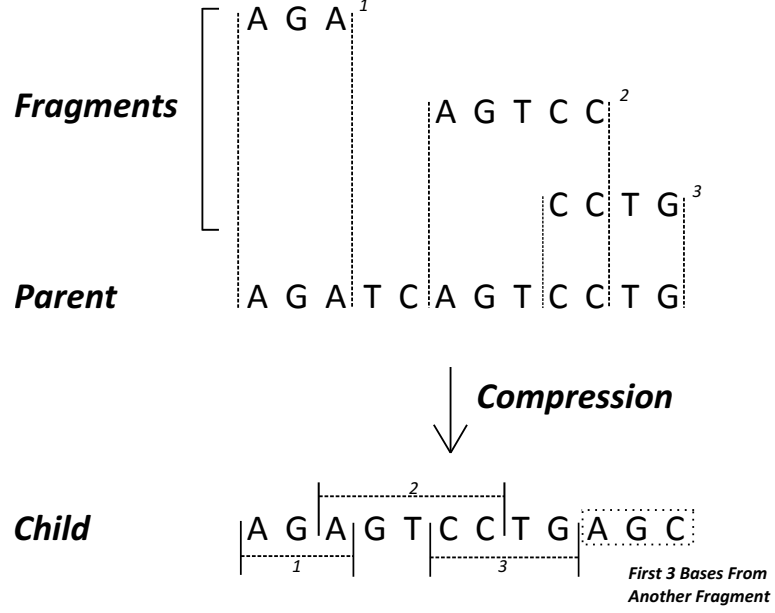


Figure 3.3: Illustration of compression operator [56]

gorithm (which is an extension of a GA) was selected due to its ability to promote diversity by using very destructive crossover operator. This CHC algorithm also will restart if the population remains unchanged by creating a new population with the best individual from the previous population and by mutating copies of the best individual.

The scatter search is a population-based metaheuristic which uses a reference set (generated with some method) for the combination of solutions and the generation of new solutions which were ultimately used to run an improvement procedure.

The authors used two different fitness evaluation formulae. The first is the same formula used by Parsons (see equation 3.2) and the second is as follows:

$$Fitness = \sum_{i=0}^{n-1} \sum_{j=0}^{n-1} |i - j| * Overlap_{frag_i, frag_j} \quad (3.3)$$

This formula pushes highly overlapping fragments together by penalizing solutions which have non-adjacent fragments with strong overlaps. Unlike equation 3.2 which has algorithms attempting to maximize the fitness score, algorithms that use equation 3.3 will need to minimize this score to produce good results.

Simulated annealing obtained the best results and ran orders of magnitude faster than the other approaches. The authors conclude further study into the use of trajectory based methods would be beneficial.

3.8.4 A Hybrid Genetic Algorithm for the DNA Fragment Assembly Problem

Enrique Alba and Gabriel Luque also proposed a hybrid approach which took PALS (Problem Aware Local Search) and combined it with a simple GA and had significant results that outperformed the two algorithms on their own [13]. The authors also suggest that the number of contigs is important to consider in addition to the overlapping score of the fragments.

PALS is an algorithm which was also developed by Alba and Luque [12]. It is a local search algorithm which operates on a single permutation and iteratively modifies the permutation in a structured manner with perturbations that reverse sub-sequences [92].

3.8.5 DNA Fragment Assembly Using a Grid-Based Genetic Algorithm

Nebro et al. proposed a GA for solving the DNA fragment assembly problem using a computational grid named GrEA in 2007 which performed well [114].

GrEa is a highly parallelized steady-state GA which makes use of a panmictic population (no restrictions on which chromosomes can have genetic operators applied to them) that is based on computing functional evaluations asynchronously. Ideally, this type of GA can carry out as many evaluations as there are processors in the grid.

The authors used two fitness functions, Equations 3.2 and 3.4. Equation 3.4 takes into account the number of contigs in addition to the overlap scores between adjacent fragments.

$$Fitness = \left(\sum_{i=0}^{n-2} Overlap_{frag_i, frag_{i+1}} \right) * \left(1 + \frac{1}{NumberofContigs} \right) \quad (3.4)$$

3.8.6 SAX: a new and efficient assembler for solving DNA Fragment Assembly Problem

Gabriela Minetti et al. used a hybridization of Simulated Annealing and a Genetic Algorithm called SAX [110]. SAX was identified as being a low-level teamwork hybrid algorithm in [134].

The algorithm takes an initial potential solution called S_0 which is generated with a greedy approach proposed in [109]. S_0 is used to generate two additional solutions

(S_1 and S_2) with inversion mutation which are ultimately used to generate S_3 by performing order crossover. If S_3 has a better fitness value than S_0 then S_0 will be replaced by S_3 . Figure 3.4 illustrates the processes in this algorithm.

1. Generate S_0 Using a Greedy Strategy

S_0 7 5 3 4 2 1 8 7 6

2. Create S_1 and S_2 by Applying the Inversion Mutation to S_0

S_0 7 5 3 4 2 1 8 7 6

S_1 7 2 4 3 5 1 8 7 6

S_2 7 5 3 4 2 1 6 7 8

Substring Used by
Ordered Crossover

3. Generate S_3 by Applying Ordered Crossover to S_1 and S_2

S_3 7 4 2 3 5 1 8 6 7

4. If Applicable, S_0 is Replaced by S_3

Figure 3.4: Illustration of SAX operation [110]

SAX is shown to extend exploration and increase the structural diversity with the use of inversion mutation along with an increase in exploitation obtained with order crossover. SAX was able to outperform many popular algorithms for the FAP and the authors also suggest this algorithm for a variety of other ordered gene type problems such as the travelling salesman problem.

3.8.7 An efficient genome fragment assembling using GA with neighbourhood aware fitness function

In 2012 Satoko Kikuchi and Goutam Chakraborty used a similar GA to the one used by Parsons but also proposed a Chromosome Reduction Step (CRed) and a Chromosome Refinement Step (CRef) [88]. The purpose of the Chromosome Reduction Step is to reduce the search space for the GA by combining a collection of fragments into a contig (if the resulting contig is over a predefined threshold) during the evolutionary process. This allows the GA to run more efficiently.

The Chromosome Refinement Step involves a greedy algorithm which swaps the order of the fragments to position them in a way that corresponds to the original sequence more naturally. An example of this can be seen in figure 2.3. The five overlap orientations possible when two fragments A and B overlap are as follows (see Figure 2.3). Pattern 1: suffix of A overlaps prefix of B. Pattern 2: suffix of A overlaps suffix of B. Pattern 3: prefix of A overlaps prefix of B. Pattern 4: suffix of B overlaps prefix of A. Pattern 5: suffix and prefix of both A and B overlap. If fragments have pattern 4 as the overlap it is clear that the fragments are out of order. This CRef operation would switch these fragments' positions [88].

This proposed GA and the new functions were found to outperform the algorithm used by Parsons.

3.8.8 Solving the DNA Fragment Assembly Problem Efficiently Using Iterative Optimization with Evolved Hypermutations

Kubalik et al. developed an evolutionary algorithm called Prototype Optimization with Evolved Implement Steps (POEMS) [92]. This evolutionary approach produces a collection of modifications to the current solution (called a prototype). The best modification is then checked to see if it improves or worsens the current prototype and if it is at least as good it will replace the current prototype for the next set of iterations. The authors also realize that as the prototypes get better and better there is a good chance that these modifications will begin to only worsen the prototype. To combat this issue they implemented a *niching tournament selection* and *niching replacement strategy*. The authors define a niche as a group of modifications that have the same number of alterations to be made to the prototype.

The niching tournament selection takes a random niche and performs a tourna-

ment between a predefined number of modifications within the selected niche. The niching replacement strategy was used to ensure each newly generated modification is only inserted into the population if there is an admissible replacement in the current population. This approach maintains quality and diversity in the population. In other words, the old modification is replaced if and only if the fitness is worse than the new modification and the number of alterations in the old modification is less than or equal to the number of alterations made by the new modification.

POEMS was found to perform very well and generate better results than those obtained by various other state-of-the-art approaches and the authors feel that this can be attributed to the fact that this algorithm efficiently explores a current solution's neighbourhood in each iteration of the algorithm.

3.8.9 Bee Algorithms for Solving DNA Fragment Assembly Problem With Noisy and Noiseless Data

Two bee algorithms were proposed by Firoz, Rahman, and Saha in 2012 for the FAP [58] called Artificial Bee Colony (ABC) and Queen-bee Evaluation Based On Genetic Algorithm (QEGA). These bee algorithms are nature-inspired algorithms based on the natural foraging behaviour of honeybees.

The ABC algorithm consists of three types of bees, employee bees, onlookers, and scouts. Onlooker bees wait for employee bees to do a 'waggle' dance which tells them the source of food, employee bees forage food in areas it has already found, and scout bees perform random searches for food. Algorithm 2 contains the pseudocode for the ABC algorithm. For the FAP, each food source represents a permutation of the DNA fragments and the quantity of food is equivalent to the fitness of the permutation.

The QEGA is a special GA designed to quickly find global optima while avoiding premature convergence [121][83]. QEGA differs from a conventional GA in two ways: varying mutations are used and parent chromosomes consist of $k/2$ copies of queen-bees (fittest parents) and $k/2$ copies of bees from the previous generation (where k is the population size).

These authors used their algorithms on noiseless and artificially noisy data and observed that they performed well on the noiseless data but poorly on the noisy data.

Algorithm 2 Artificial Bee Colony Algorithm [85]

```

Initialize potential food sources (permutations of fragments)
while Stopping criteria is not met do
  for all Employee bees do
    Find food source from memory
    Determine a neighbour source
    Evaluate nectar amount
    Dance in hive
  end for
  for all onlooker bees do
    Watch Dance of employee bees
    Select food source and find it
    Finds neighbour source and determine its nectar amount
  end for
  Abandoned food sources are determined and replaced by new food sources which
  are found by scouts
  Keep track of current best food source
end while

```

3.8.10 DNA Fragment Assembly Using Optimization from Nature Inspired Algorithms to Formal Methods

A parallel differential evolution particle swarm optimization hybrid called DE+PSO was developed by Guillermo M. Mallen-Fullerton and Guillermo Fernandez-Anaya for the FAP in 2013 that produced results comparable to many of the most popular algorithms for this problem [101].

Differential Evolution (DE) is an optimization metaheuristic that maintains a population of candidate solutions and creates new potential solutions by combining existing candidates [132][133]. Algorithm 3 contains the pseudocode for DE.

Particle Swarm Optimization (PSO) is another metaheuristic for optimization inspired by flocking birds and schools of fish [86]. PSO attempts to have particles find a global optimum based on their momentum and are influenced by their best known location along with the best known location found by all particles in the system. Algorithm 4 contains the pseudocode for PSO.

The pseudocode for DE+PSO hybrid algorithm is found in Algorithm 5.

DE+PSO needed to use the Smallest Position Value rule to convert the continuous values obtained by the algorithm to a permutation for the FAP [135][115].

Algorithm 3 Differential Evolution Algorithm [132][133]

```

Initialize chromosomes randomly
Evaluate fitness of all chromosomes
while Stopping criteria not met do
  for all Chromosomes in population do
    Select 3 distinct additional chromosomes
    Update personal best position
    Calculate donor vector
    Determine trial vector
    Calculate trial vector's fitness
    if Trial vector is better than target vector then
      Replace target vector with trial vector
      Assign appropriate fitness
    end if
  end for
end while

```

Algorithm 4 Particle Swarm Optimization Algorithm [86]

```

Initialize particles randomly
Initialize velocities to zero
while Stopping criteria not met do
  for all Particles in swarm do
    Evaluate fitness
    Update personal best position
  end for
  Update global best particle
  for all Particles in swarm do
    Calculate new velocity
    Update particle position
  end for
end while

```

Algorithm 5 Differential Evolution + Partical Swarm Optimization Algorithm [101]

```

Generate random initial populations within each thread in a predefined hyper-box
containing the optimum point
Find global best particle with fitness evaluation function and consider this the best
position for each particle
for all particle  $i$  in each thread sub-population AND if stopping criteria is not met
do
    if There is a new global best then
        Copy new best from shared memory to local variables
    end if
    Calculate new velocity and position vectors
    Calculate DE perturbation vector
    Cross perturbation vector with particle  $i$ 
    if New particle is better than old particle then
        Copy new particle position to be the current particle position
    end if
end for

```

3.8.11 De Bruijn Graph Approaches

De Bruijn graphs have been used in multiple cases for de novo assemblies [118]. Daniel Zerbino and Ewan Birney developed a tool called “Velvet” to manipulate de Bruijn graphs for sequence assembly [142] and Yingrui Li et al. discuss two additional tools which use de Bruijn graphs called ABySS and SOAPdenovo [98].

All of these tools use de Bruijn graphs for sequence assembly for very short reads (25-50 bases). These approaches have been successful at removing errors and resolving a large number of repeats. These approaches all use the N50 statistic, a statistic of contig of scaffold lengths - a popular measure for DNA sequence assemblers [107].

Chapter 4

Algorithms

This chapter discusses the algorithms used in this thesis. This includes the heuristics, a description of genetic algorithms, and details explaining the set of genetic algorithm variations. In addition, a description of the representations being implemented is also included in this chapter.

4.1 Heuristics

4.1.1 Nearest Neighbour

The nearest neighbour algorithm is a popular greedy approximation algorithm for the TSP. The idea behind this algorithm is rather simple: start at a random city (vertex) and visit the next closest city (vertex) relative to the salesman's current location such that the new city has not yet been visited. Although this approximation algorithm was originally developed for the TSP it can be applied to other similar problems by changing the distance measure to the appropriate fitness function. This approximation algorithm can quickly generate a relatively short tour but is unlikely to be optimal. Additionally, one could generate an instance of the TSP such that the nearest neighbour algorithm would produce the worst tour possible. See Algorithm 6 for the nearest neighbour algorithm's pseudocode.

4.1.2 Minimal Spanning Tree

An algorithm based on minimal spanning trees can also be used to generate approximations for the TSP. Normally this approach can yield a solution that is no worse than twice the length of the optimal solution. If the instance follows the triangle in-

Algorithm 6 Nearest Neighbour Algorithm

```

Graph  $G = (V, E)$ 
Select  $u \in V$  for starting location
while There Exists Unvisited Nodes do
    MinCost =  $\infty$ 
    Nearest = NULL
    for all Unvisited Vertex  $v$  do
        if distance( $u, v$ ) < MinCost then
            MinCost = distance( $u, v$ )
            Nearest =  $v$ 
        end if
     $u = v$ 
    end for
end while

```

equality and the algorithm exploits this a solution no worse than 1.5 times the length of the optimal tour can be found [41].

A popular method for generating a minimal spanning tree is Prim's minimal spanning tree algorithm. The pseudocode for Prim's algorithm is shown in Algorithm 7. This algorithm selects a vertex to initialize the tree than iteratively adds the next closest vertex not already within the tree until all vertices are apart of the minimal spanning tree.

Algorithm 7 Prim's Minimal Spanning Tree Algorithm [45]

```

Graph  $G = (V, E)$ 
Add all  $V$  to Queue  $Q$ 
for all  $u \in V$  do
     $u.Min = \infty$ 
     $u.Parent = NULL$ 
end for
Select  $u \in V$  for starting location
while  $Q$  is NOT Empty do
     $u = Dequeue(Q)$ 
    for all  $v \in V$  do
        if  $v \in Q$  & distance( $u, v$ ) <  $v.Min$  then
             $v.Min = distance(u, v)$ 
             $v.Parent = u$ 
        end if
    end for
end while

```

4.1.3 2-Opt

Similar to the nearest neighbour approach the 2-Opt algorithm was developed as a heuristic for the TSP but can be applied to many similar problems. The success of 2-Opt has led to the implementation of 3-Opt, K-Opt, and other algorithms including the dynamic approach of Lin-Kernighan. The basic idea behind 2-Opt is to take a particular location within a permutation and reverse the sub-permutation that follows the specified location. This has the effect of crossing the permutation on itself. Figure 3.1 depicts this process. It is important to note that this approach has the ability to create all possible permutations of a string.

2-Opt has been shown to be a very effective heuristic that can generate high quality solutions in a relatively short amount of time. Refer to Algorithm 8 for an implementation of 2-Opt (Note that Algorithm 9 is required in this specific implementation). Algorithm 9 reverses the order of objects following some index within the permutation. Algorithm 8 simply runs Algorithm 9 for all indices until no improvements are made.

Algorithm 8 2-Opt: Note, Opt-Swap is also required (Algorithm 9)

```

while Improvements are still found do
  for i = 0 to length of path do
    for j = i to length of path do
      newPath = optSwap(path, i, j)
      if newPath is better than path then
        path = newPath
      end if
    end for
  end for
end while

```

4.1.4 Lin-Kernighan

The Lin-Kernighan heuristic (LKH) was developed for the TSP and has been empirically shown to be one of the most effective and efficient algorithms for the particular problem. Similar the Nearest Neighbour and 2-Opt (including variations) algorithms it can be extended to other similar problems. The Lin-Kernighan heuristic is particularly complicated. The LKH involves applying multiple K -opts while intelligently determining the value of K for each step.

There have been many variations of the LKH but K. Helsgaun's implementation consistently produces high quality results [71]. The LKH currently holds the record

Algorithm 9 Opt-Swap: Used in 2-Opt

```

Receive: path, start, stop
Initialize newPath
for i = 0 to start do
    newPath[i] = path[i]
end for
for start to stop do
    newPath[i] = path[stop - (i - start) - 1]
end for
for stop to length of path do
    newPath[i] = path[i]
end for
Return newPath

```

for all instances with a known optimum used in the *DIMACS TSP Implementation Challenge* [2][71].

4.2 Genetic Algorithm

Genetic Algorithms (GAs) are a form of heuristic search inspired by the natural process of evolution. Although the concept of evolving potential solutions to a problem had already existed, the process was popularized in the 1970s by John Holland [73]. This field was furthered by D. E. Goldberg who thoroughly studied this idea [63].

4.2.1 Genetic Algorithm Definitions

Before an explanation of the GAs process, some terminology needs to be presented.

Chromosomes, in terms of a Genetic Algorithm, are potential solutions to the given problem. The actual layout of a chromosome depends on the problem and the chosen representation. These chromosomes could be a simple ordered permutation or even an encoding for a Side Effect Machine. Chromosomes are often referred to as “candidate solutions”.

Populations are collections of chromosomes (candidate solutions). The number of chromosomes within the population is normally predefined by a system parameter.

Generations are steps in the Genetic Algorithm; namely the “Evaluation and Selection” and “Termination” steps. The main processes within a generation are the fitness evaluation of the whole population, the selection process, and the application of the genetic operators (crossover and mutation).

Selection is the process by which the GA selects the chromosomes that will be subject to the genetic operators. There are multiple selection strategies but one of the more popular approaches is “Tournament Selection”.

In tournament selection n random chromosomes are selected from the population and the chromosome with the best fitness is chosen for reproduction. This process is done twice to select two parents for reproduction. When n is much less than the population size, the chance that the best chromosomes are always selected for reproduction is lowered. This ensures that some mediocre chromosomes are selected which allows for more genetic diversity in the population.

Genetic Operators are strongly influenced by the natural process of biological evolution. There are two major types of genetic operators, Crossover and Mutation. These operations allow the GA to try new candidate solutions to be able to traverse through the search space.

Crossover is a genetic operator that happens before a new population is created based on the previous generation. Once two chromosomes are selected by the selection process there is a chance that these two chromosomes will crossover (breed) to generate two new chromosomes. If the two chromosomes do not meet the requirements to crossover they are simply copied to the new population for the next generation. The basic idea is that given two reasonably good chromosomes, there is a chance that mixing these two chromosomes together will produce another good solution. In other words, because a good chromosome will have some useful information within its representation, mixing it with other useful information might produce an even better chromosome by inheriting strengths from the parents. After crossover has been performed the two resulting chromosomes (children) will be placed in the new population. This process focuses on what are already known to be good solutions in hopes that another good or better solution can be found.

There are many different kinds of crossover operations that can be used, and some are more useful than others when considering the representation and search space.

Mutation is a genetic operator that happens after the new population is created. The new population is traversed and each chromosome within the new population has a chance to mutate. In biological evolution mutations may occur in the reproduction processes (whether it is sexual reproduction or mitosis). Normally mutations have negative effects but there is a chance for mutations to produce robust offspring. It is this that the mutation genetic operator tries to simulate. Mutation is a process that takes a chromosome as a starting point and makes changes in an attempt to examine some other areas in the search space that would not be easily accessible based on the

crossover operation alone. Mutation also helps the GA avoid converging on a local optimum.

Genetic Diversity is a measure of how different chromosomes are from one another in terms of the actual chromosome and fitness values. In other words, not all of the chromosomes have the same information. Too little diversity within a population means that the GA may converge on local optima too quickly.

Convergence is a term used to describes the phenomenon of a population collectively coming together on a single solution, normally on a local optimum, and ideally on a global optimum. Generally, once a population has converged no significant improvements are made as the algorithm cannot remove itself from the local optimum, or in the case of a global optimum, no additional improvements can be made..

Elitism in a Genetic Algorithm is the process of copying some number of the best chromosomes to the next population before any genetic operation occurs. This ensures that the best solution is not lost or altered.

Representation is one of the most important parts of a metaheuristic. The representation is how the metaheuristic represents a candidate solution within a chromosome. There are two different classifications of representations: direct and indirect. Direct representations directly translate to solutions. For example, for the TSP, a direct representation would be a permutation of the cities. An indirect representation would be one that would require a translation method to produce a candidate solution. An example of an indirect representation would be a set of transpositions that would be applied to a permutation to obtain a candidate solution. A chromosome that uses a direct representation is referred to as a genotype or a phenotype. An indirect representation is called a genotype and after the translation method it is referred to as a phenotype.

It is very important to study more than one representation when using metaheuristics. Genetic operators can have different effects on the different types of representations and these representations can have vastly different fitness landscapes.

Fitness Functions for metaheuristics determine how ‘good’ a chromosome (candidate solution) is. A fitness function receives a chromosome (a translation might be required depending on the representation) and evaluates how well the solution fits the criteria. Using the TSP as an example the fitness function would calculate the total distance travelled for given a permutation of cities.

There are four major steps involved in a genetic algorithm: Initialization, Evaluation and Selection, Genetic Operations, and Termination. A GA can normally find a reasonably good solution to a problem after a series of the *Evaluation and Selection*

and *Termination* steps are completed. These reasonably good solutions are considered acceptable as it is generally applied to problems for which the problem space is computationally intractable and would require an unreasonably large computation time to solve the problem with brute force.

Refer to Algorithm 10 for an implementation of a very simple Genetic Algorithm. This algorithm first generates a population then repeatedly evaluates the fitness values, selects the best chromosome for elitism, and applies genetic operators until some stopping criteria is met.

Algorithm 10 Genetic Algorithm

```

Randomly Generate Population
while Stopping Criteria is Not Met do
  for all Chromosome  $C$  in Current Population do
    Evaluate  $C$ 's Fitness
  end for
  Select best  $x$  Chromosomes to Propagate to Next Generation for Elitism
  for all Positions  $P$  in Next Population do
    Perform Selection Criteria
    Perform Genetic Operators on Selected Chromosomes
    Place Children Produced Into Next  $P$ 
  end for
  Next Population Set as Current Population
end while
Select Best Chromosome as Best Solution

```

4.3 Genetic Algorithm Variations

A collection of Genetic Algorithm (GA) variations were selected for use in this work: Recentering-Restarting GA (RRGA), Island Model GA (IM), and a GA which uses Ring Species (RS). The RRGA was used on all problems and the IM and RS were used for the Fragment Assembly Problem. These variations were also used in combination for the FAP to better explore the search space to maximize the significance of the results.

4.3.1 Ring Species

The motivation for ring species in evolutionary algorithms is based on a natural phenomenon: the differentiation of a population when expanding around geographical barriers [16]. These populations tend to develop differences and fertility rates drop

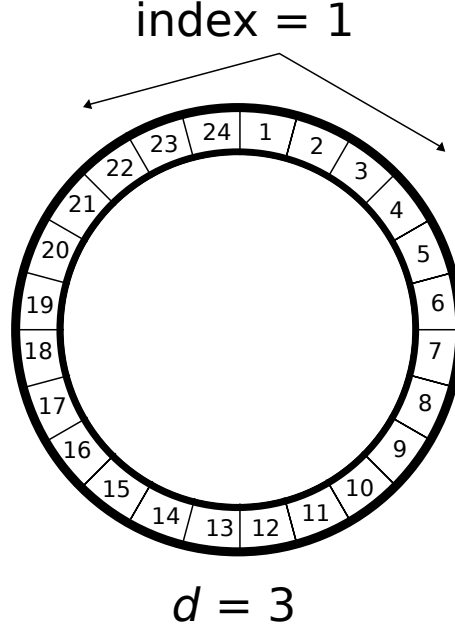


Figure 4.1: Ring Species example where $d = 3$ and the starting index is 1.

as the distance between two populations increases. These fertility rates tend to drop until some threshold distance is met at which the two populations cannot produce offspring.

A simpler variation of ring species can be implemented where the population is treated as a ring (consider the first and last members of the population as adjacent) and mating is only allowed to occur between chromosomes that fall within some predefined distance d of each other. This idea is demonstrated in Figure 4.1 where chromosome 1 can only mate with chromosomes within a distance of 3 (chromosomes 22, 23, 24, 2, 3, and 4).

4.3.2 Island Model

A very popular variation of a genetic algorithm is the island model (IM). The island model was developed by Whitley and has been used successfully with many problems and different evolutionary algorithms [137][138]. The IM is popular for many reasons such as its ability to generate high quality solutions and speed.

The island model is a highly parallelized approach that evolves multiple sub-populations concurrently to encourage genetic diversity. With this approach each sub-population is allowed to traverse the search space along its own trajectory. Periodic migrations are allowed between islands which promotes unique offspring by combining very genetically different parents. Figure 4.2 depicts the sub-populations

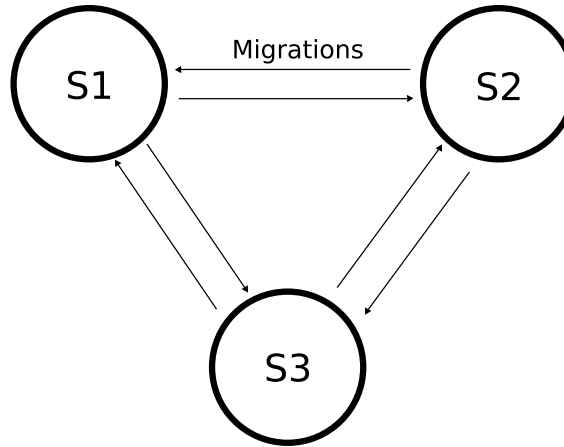


Figure 4.2: Example of 3 sub-populations evolving separately in parallel. Migrations happen periodically between sub-populations to encourage genetic diversity.

and migrations.

4.3.3 Recentering-Restarting Genetic Algorithm

The RRGGA has been studied in multiple works by D. Ashlock et al. which studying epidemic networks [17], Side Effect Machines for decoding [75], and the travelling salesman problem [76]. In all of these works the RRGGA was able to produce significant results. One of its major strengths is its ability to avoid becoming stuck on local optima which is a common problem with many metaheuristics. The RRGGA provides a sequential search through the fitness landscape for a global optimum. Local optima are avoided due to the sequential search and the nature of the required dynamic representations discussed in Section 4.4. Figure 4.3 depicts this traversal through the search space. In this example the number of transpositions used for each GA run decreases as better solutions are found meaning the radius of the circles decreases as the algorithm continues throughout evolution.

Before the algorithm can begin a centre must be selected. This centre is a direct representation of a potential solution to the problem. This centre can be randomly selected or through some heuristic. It is ideal to seed the RRGGA with a high quality solution as the RRGGA excels at traversing the search space when given an already good location within the search space. With high quality seeds the RRGGA can improve, or “polish”, candidate solutions.

Once the centre is selected the population can be created. Depending on which representation is used, some modifications may be required. In this thesis two different representations are studied, a direct representation and an indirect transposition

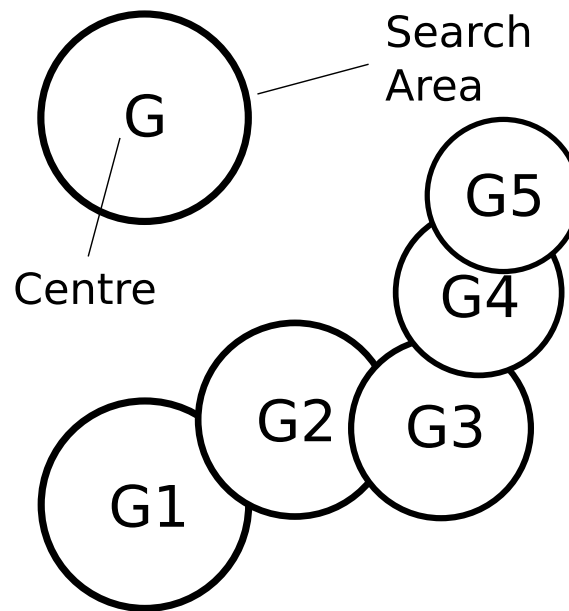
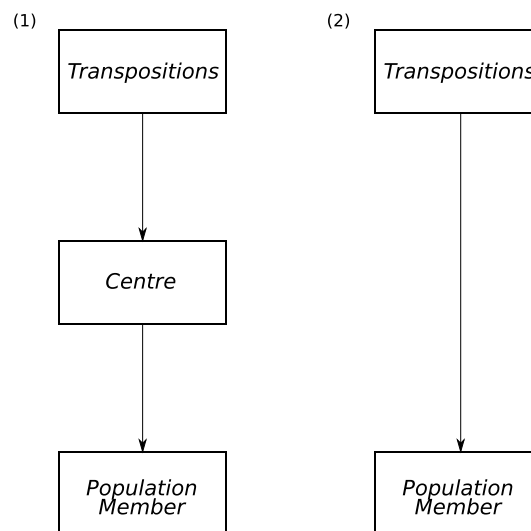


Figure 4.3: Example traversal of search space by RRGa.

Figure 4.4: Depiction of how the population is generated. (1) demonstrates how the direct representation variation's population is generated by applying transpositions to the centre and placing the resulting candidate solution into the population. (2) demonstrates how the indirect transposition representation variation's population is generated by simply placing the transpositions into the population.



based representation (See subsection 4.4). For the direct representation a string of n transpositions are applied to the centre to generate each member of the population. For the indirect representation strings of n transpositions are simply placed into the population to be used as the chromosomes. Figure 4.4 gives a visualization of how the population is generated based on the respective representation.

Seeding a GA with a high quality solution for a problem could result in stagnation as no further learning can be found due to fixating on a local optimum. The RRGAs avoid this problem due to the nature in which the population is derived from the centre.

After the population is created a simple GA is run. An additional step is required when using the transposition representation that translates the chromosome into something the fitness function can evaluate. To accomplish this with the transposition representation one needs to take the n transpositions and apply them to the current centre in order to generate a permutation which can be analyzed. Figure 4.5 demonstrates how the translation method is applied. Figure 4.6 depicts in detail the actual translation process. Algorithm 11 presents pseudocode for translation. Algorithm 11 applies all neighbouring transpositions from a candidate solution to a copy of the current centre and returns the resulting permutation.

Algorithm 11 Translation Method

```

Receive array of transpositions called inTrans
Copy centre to path
for all transpositions  $t$  in inTrans do
    Exchange elements  $t$  and  $t + 1$  in paths
end for
Return path

```

Once the GA completes a run the current best chromosome is compared to the current centre. If this chromosome has a better fitness value than that of the current centre it will become the new centre and the whole process repeats but with the number of transpositions increased (or decreased). If the best chromosome's fitness does not improve upon the current centre's fitness, the current centre is left unchanged and the process is repeated with the number of transpositions altered in the opposite way to if the centre had been replaced. In other words, if the number of transpositions was increased when the centre was replaced, then the number of transpositions would decrease if the centre was left unchanged, and vice versa. Once these alterations are made the GA will be run again and the whole process will repeat multiple times. By altering the centre and the number of transpositions used the search will be

Figure 4.5: An example of how the transpositions would be applied to the current *centre* to generate a candidate solution. Notice the similarity to part (1) of Figure 4.4 which portrays how the initial population is generated for the direct representation variations of the Recentering-Restarting Genetic Algorithm.

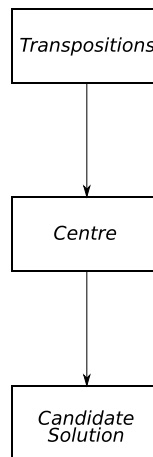


Figure 4.6: Demonstration of the translation algorithm taking a chromosome of neighbouring transpositions and applying them to some centre.

```

      Centre:  A B C D E F G
Chromosome:   1 0 3 4 3 1 2

```

Application of First Gene

Centre: A C B D E F G
Swap B and C
Chromosome: 1 0 3 4 3 1 2



Completed Translation

Centre: C B F A E D G

different from its previous run allowing for a very dynamic traversal through the fitness landscape with the intention of finding the global optimum.

The number of restarts that are used for an actual run can be defined two different ways. Either there is a fixed, static number of restarts or the number of restarts is set to be dynamic. For example, one could define the RRGGA to restart x times (static restarts), or one could tell the RRGGA to restart after y generations of no learning (dynamic).

The number of transpositions defined for the start of the algorithm could be defined one of two ways: a predefined number or a factor of the length of a candidate solution. For the case of the predefined number one would simply set x transpositions at initialization where x is a system parameter. For the factor one would set the factor y as a system parameter and the actual number of transpositions is calculated by $y * \text{Length Of Solution}$. There are pros and cons to both approaches but one of the disadvantages of the fixed approach is how limiting this value is. For example, if two different problem instances have candidate solutions of length $l1$ and $l2$ and the number of transpositions is set to be v then it is unrealistic to expect similar results on the two instances as the ratio of transpositions and solution lengths will be very different. Although this issue is eliminated since the number of transpositions is always changing the factor approach will not have this problem at initialization.

There are two different ways one could define how the number of transpositions will be altered after each basic GA run in the RRGGA. The number may be fixed, for example, if there is an improvement then decrease the number of transpositions by 5 and if there is no improvement then increase the transpositions by 10. The problem with this approach is that one needs to be very careful to avoid using only *even* or only *odd* permutations. This requirement comes from the fact that any permutation is either even or odd [30]. The composition of two even permutations always results in an even permutation, the composition of two odd permutations always results in an even permutation, and the composition of an even and an odd permutation always results in an odd permutation [80]. If one were to ignore this fact then not all permutations would be explored by the search algorithm resulting in a detrimental loss in potential high quality results. The alternative to the fixed number approach is to use a percentage paradigm. An example of this would to multiply the number of transpositions by 0.95 on an improvement or by 1.10 when there is no improvement. This approach will result in different compositions of even and odd permutations on every restart which eliminates the concerns of the fixed approach.

A limit is set to how large or how small the number of transpositions can become.

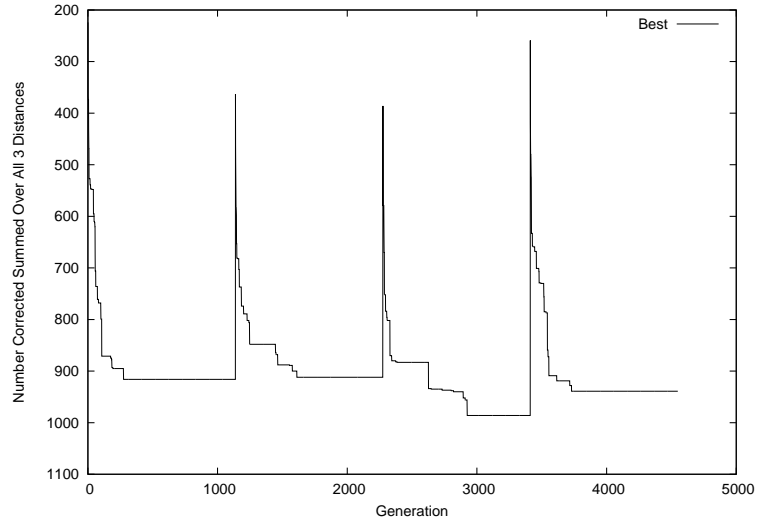


Figure 4.7: Learning curve with recenterings and restarts occurring. High peaks (poor fitness) occur when the algorithm restarts on a new centre because the system has yet to have an opportunity to learn with the new population. Notice how the overall trend of the learning curve is a consistent improvement in fitness.

If this limit is passed then the number of transpositions is reset to the initial value. The limit used is normally set to $1/10th$ and $10*$ the initial value.

Sometimes it may be advantageous to force a recentre after the first GA run to promote distance between the initial seed and the centre to help remove the risk of stagnation on the seed's local optimum.

Figure 4.7 depicts a typical learning curve for the Recentering-Restarting Genetic Algorithm.

The Recentering-Restarting Genetic Algorithm process can be seen in Algorithm 12.

4.4 Representation

Although direct representations are frequently used in Genetic Algorithms for their ability to produce quality results it is important to explore and utilize other ideas and representations. Ideally these new representations would have different characteristics while maintaining the qualities provided by a direct representation. Two different types of representations will be used for all variations of the GAs: a direct representation and an indirect transposition based representation.

Algorithm 12 Recentering-Restarting Genetic Algorithm [75]

```

Assign Random Centre  $\sigma$ 
Set Flag
while Stopping Criteria is Not Met do
  if Flag is Set then
    Centre =  $\sigma$ 
    Initialize Population Through use of Transpositions
  end if
  Run Genetic Algorithm
  if Solution  $\tau$  is Better than  $\sigma$  then
     $\sigma = \tau$ 
    Set Flag
  else
    Reset Flag
  end if
  Increase/Decrease Number of Transpositions to be Generated
end while

```

4.4.1 Direct Representation

Our direct representation is simply an ordered list which represents a solution to the problem. Depending on which problem is being studied this representation will alter slightly. For the TSP a chromosome would be a permutation which represents the order in which one should visit the cities. For the BPP the permutation represents the order the items should be packed into the bins. The GCP's direct representation is the order one should colour the vertices based on the heuristic. For DNA Error Correction the representation is an encoding for a SEM and lastly the chromosome for the DNA FAP is a permutation that represents the order in which the fragments should be assembled.

4.4.2 Indirect Transposition Representation

The indirect transposition representation will be an ordered list of transpositions that exchange *neighbouring* elements of the centre. The actual step of applying the transpositions is only applied during the fitness evaluation stage with a translation method. With this representation the chromosome is an ordered list of transpositions and the genetic operators only alter the order of the transpositions and never directly alter an order of the elements. This representation always exchanges neighbouring elements which means that this representation is formed from a set of local search operators. By adjusting the number of transpositions one can easily alter the degree

of locality that the GA searches.

Defining the Transposition Representation

Definition 1. The **group** S_n is the set of all permutations of an n -element set with the group operation being functional composition of the permutations.

Definition 2. A **subgroup** of S_n is a closed subset of S_n .

Cayley's theorem [80] in group theory says that all finite groups are equivalent to subgroups of S_n . We need to understand the sense in which the term *closure* is used here.

Definition 3. If $A = \{g_1, g_2, \dots, g_m\}$ is a set of permutations then the **closure** of A is the result of performing all possible compositions $g_{i_1} \circ g_{i_2} \circ \dots \circ g_{i_k}$ of members of A , repeating any element, i_k , any finite number of times in the chain of compositions.

Now we know what the closure of a set permutation is we may define a generating set.

Definition 4. Suppose that A is a set of permutations and that B is a group. Then it is equivalent to say that B is the closure of A or that A generates B .

When ordering a list of n elements then it may be viewed as the order encoded in a list as a member of S_n .

Definition 5. If Δ is a generating set of S_n then the **linear representation for ordered genes using** Δ (LROG using Δ) is a string representation over the alphabet A . In order to implement this representation a **centre** permutation is required. The centre is the starting point. For a string of generators in A^m the permutation encoded is the composition, in order of the members of the string, of the generators of the string which is then also composed with the centre.

We will define the *identity permutation* which takes each item to itself as the *trivial centre*. If no centre is specified the identity will be the default centre. If m in Definition 3 is too small then many permutations cannot be generated by the representation. This means that a local search of a part of permutation space can be performed with this representation: it is important not to do this accidentally while imagining you are performing a global search.

A key point in constructing an LROG is to select the generating set Δ of S_n .

Definition 6. A **transposition** is a permutation that exchanges two objects but takes all the others to themselves.

Definition 7. The **shared point graph** of a set V of transpositions has V as its vertex set with two transpositions considered adjacent if they share a single point in the pair of points they exchange. Figure 4.8 depicts an example of the shared point graph.

Here we present a well known theorem of group theory [61][79].

Theorem 1. If a set of transpositions has a connected shared point graph and every point is moved by at least one of the transpositions then those transpositions form a generating set of S_n .

Example - The following are generating sets of S_n :

1. The set of all transpositions generates S_n . This generating set has size $\frac{1}{2}n(n-1)$.
2. Suppose that a_1, a_2, \dots, a_n is an ordered list of the numbers $\{1, 2, \dots, n\}$. Then the set of transpositions that exchange the pairs a_i, a_{i+1} generate S_n . This generating set has size $n - 1$.
3. Suppose that a_1, a_2, \dots, a_n is an ordered list of the numbers $\{1, 2, \dots, n\}$. The permutation that takes each member of that list to the next member, and takes the last member to the first, together with any one transposition that exchanges a_i, a_{i+1} is a generating set of S_n . This generating set has size 2.

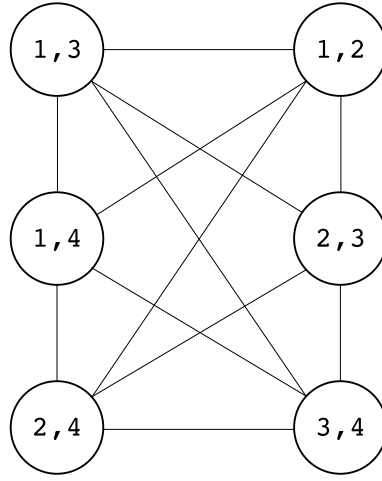
Though any generating string can be used to form an LROG, the focus will be on the second example. Notice *any* ordering of the initial n objects yields its own set of $n - 1$ transpositions that generate all possible permutations (ordered genes).

It is important to note that many different collections of generators can be used to form an LROG but the generating set that exchanges neighbouring elements is used in this work. A benefit of this representation is the ability to control the level of locality of the search by adjusting the length of the string of transpositions.

4.5 Genetic Operators

The Genetic Operators give the GA the ability to explore other areas of the search space by adding some level of entropy to the algorithm. There are multiple popular types of genetic operations but the most common two are *crossover* and *mutation*.

Figure 4.8: An example of a shared point graph where $n = 4$. This figure depicts the first example from Theorem 1: $size = \frac{1}{2}(4)((4) - 1) = 6$ ($V = \{(1, 2), (1, 3), (1, 4), (2, 3), (2, 4), (3, 4)\}$).



4.5.1 Crossovers

Two crossover operators were used in this work, One-Point Crossover (OPC) and Partially Mapped/Matched Crossover (PMC). The necessity of two crossovers is due to the nature of the representations used.

When using a direct representation on ordered gene problems there is usually a requirement that all genes are used and each gene is used once and only once. Because of this requirement PMC was used, as it preserves unique information within the chromosome and it guarantees that there will be no duplicate genes and that each gene is used at least once.

OPC does not guarantee that the requirements will be met but it is ideal for the indirect transposition representation as it is not very destructive. The indirect representation has no such requirement. The indirect transposition representation is very sensitive when it comes to the order of the genes in the chromosome so the less destructive the crossover the better.

Partially Mapped/Matched Crossover (PMC)

The PMC is rather complicated compared to OPC. There are two functions required for PMC. The idea is to select two starting locations and proceed with a position exchange between the two parent chromosomes within these two starting locations. Once this is completed the rest of the chromosomes are checked for duplicates. If there are duplicates then cycles between the two chromosomes are checked to determine

which gene should replace the duplicate.

Refer to Algorithms 13 and 14 for PMC. Find Bottom (Algorithm 14) is used to cycle through the two chromosomes to find which gene should replace a duplicate

Algorithm 13 Partially Mapped/Matched Crossover. Note that the recursive Find Bottom is required for this function (Algorithm 14)

```

Receive Parent Chromosomes  $P1$  and  $P2$  as Input
Generate Random Start Location  $R1$ 
Generate Random End Location  $R2$ 
Create temporary Arrays  $recC1$  and  $recC2$  and Place Their Index Into Array
for Each Index  $i$  from  $R1$  to  $R2$  do
     $recC1[c2[i]] = c1[i]$ 
     $recC2[c1[i]] = c2[i]$ 
end for
for Each Index  $i$  from 0 to  $ChromosomeLength$  do
    if  $i$  is Between  $R1$  and  $R2$  then
        Swap Genes  $C1[G]$  and  $C2[G]$ 
    else
         $tempForSwitch = \text{Find Bottom}(recC1, C1[i])$ 
        if  $tempForSwitch$  Does Not Equal -1 then
             $C1[i] = tempForSwitch$ 
        end if
         $tempForSwitch = \text{Find Bottom}(recC2, C2[i])$ 
        if  $tempForSwitch$  Does Not Equal -1 then
             $C2[i] = tempForSwitch$ 
        end if
    end if
end for

```

One-Point Crossover (OPC)

One-Point Crossover simply switches all genes between the two chromosomes that follow some starting point within the chromosome. Refer to Algorithm 15 for OPC.

4.5.2 Mutation

Only one mutation operator was used in this work, namely one that simply switches the location of two genes within the chromosome. See Algorithm 16 for the mutation used in this work.

Algorithm 14 Find Bottom

Receive Array $inRec$ and int $inNum$ as Input
if $inRec[inNum]$ Equals $inNum$ **then**
 Return -1
else
 $nextLevel = \text{Find Bottom}(inRec, inRec[inNum])$
 if $nextLevel$ Equals -1 **then**
 Return $inRec[inNum]$
 else
 Return $nextLevel$
 end if
end if

Algorithm 15 One-Point Crossover

Receive Parent Chromosomes $C1$ and $C2$ as Input
 Randomly Select Starting Location R
for Each Gene G from R to $LengthofChromosome$ **do**
 Swap Genes $C1[G]$ and $C2[G]$
end for

Algorithm 16 Single Gene Location Switch

Receive Chromosome C as Input
 Generate Random Location $R1$
 Generate Random Location $R2$
 Swap Genes $C[R1]$ and $C[R2]$

4.6 Selection

Tournament selection was used in this work. Only one level was used, i.e. two chromosomes are selected and the one that has a higher fitness was chosen as one parent for crossover. This process is done twice to select both parents for whichever crossover is being used.

Chapter 5

Experimental Design

This chapter covers the details about the design of the experiments. Section 5.1 covers the travelling salesman problem: small problem instances. Section 5.2 outlines the design of the bin packing problem and Section 5.3 covers the vertex colouring version of the graph colouring problem. Section 5.4 addresses the travelling salesman problem: large problem instances. Sections 5.5 and 5.6 outlines DNA error correction and the DNA fragment assembly problem respectively.

5.1 Travelling Salesman Problem: Small Problem Instances

The travelling salesman problem: small problem instances are a collection of 100 small problem instances.

5.1.1 Purpose

The purpose of studying these small instances is to determine if there is any consistency as to which algorithm outperforms the others in general. Small problem instances were studied before with only 12 city problem instances [76]. If one algorithm performs well on all instances within a problem space then it would suggest that there might be a best algorithm for a specific problem. If there is inconsistency with respect to which algorithm performs well it would suggest that multiple algorithms would be needed to fully search a problem space. This would correspond to the idea of *No Free Lunch* in search and optimization [139]. Instead of suggesting that no one algorithm outperforms all others on all problems, it would suggest that no one algorithm outperforms all others on all instances within a problem space. Previous

work demonstrated that there was minimal consistency but suggested that the 12 city problems were too simple and biased towards a basic GA while the RRGAs never had an opportunity to demonstrate its advantages.

5.1.2 Fitness

The Fitness evaluation function used for the small instances is derived from Equation 3.1. The pseudocode for the TSP's fitness function can be seen in Algorithm 17. Algorithm 17 is based on Equation 3.1 which sums the total distance between cities based on some ordering of a permutation plus the distance from the last city to the initial city.

Algorithm 17 TSP Fitness Algorithm

```

Receive Chromosome  $C$  as Input
Initialize  $length$  to 0
for Each Index  $i$  from 0 to  $Length\ Of\ C - 1$  do
     $length = length + \text{distance between } C[i] \text{ and } C[i + 1]$ 
end for
 $length = length + \text{distance between Last and First Index}$ 
Return  $length$ 

```

5.1.3 Data Sets

The data sets used for these small instances were randomly generated by Dr. Daniel Ashlock from the University of Guelph. There are 5 sets of 100 problem instances each. These 5 sets are of 12 city, 14 city, 16 city, 18 city, and 20 city problem instances. These instances are small enough that they can be solved relatively quickly through brute force. These instances were randomly generated with no bias towards any one type of algorithmic approach.

5.1.4 System Parameters

A total of 8 algorithms were run on the small TSP instances:

- A basic genetic algorithm using the direct representation and a basic genetic algorithm using an indirect transposition representation;
- The RRGAs were used with both the direct and indirect representation;
- Two more sets of RRGAs were run:

Exp. Set	1	2	3	4	5
Xover Rate	50	50	80	20	80
Max. Xover Size	5	5	5	5	5
Mut. Rate	50	50	20	80	30
Max. Mut. Size	1	1	1	1	1
Generations	50	50	50	50	50
Population Size	50	50	50	50	50
Tournament Size	5	4	5	5	5

Table 5.1: System parameters for the basic GAs on both representations

- An RRGAs seeded with the nearest neighbour heuristic using both the direct and indirect representations;
- An RRGAs seeded with a minimal spanning tree heuristic using both the direct and indirect representations

Unlike all other experiments done in this work, the algorithms used for the small TSP problem instances had a variable sized tournament selection algorithm as a means to thoroughly analyze the system parameters, however, as experiments were conducted it was noticed that this variance in tournament size had little to no effect on the results.

The system parameters used for the basic GAs can be seen in Table 5.1. The RRGAs in this work used a static number of restarts and the number of restarts can be seen in the following tables. System parameters used for the unseeded and nearest neighbour seeded RRGAs can be seen in Table 5.2 and the system parameters used for the minimal spanning tree seeded RRGAs using the direct representation can be seen in Table 5.3. System parameters used for the minimal spanning tree seeded RRGAs using the indirect transposition representation can be seen in Table 5.4. These values were determined empirically. Each set of system parameters was run 30 times on each problem instance to ensure statistical significance.

5.1.5 Analysis

In order to determine which algorithm performs the best on which problem instances each algorithm is compared to itself over all system parameters used on that algorithm. Once the best system parameters for the specific algorithm and instance are determined the results are compared to one another to determine which algorithm performed the best. Ties are recorded for both the system parameter and algorithm

Exp. Set	1	2	3	4	5
Xover Rate	50	50	80	20	80
Max. Xover Size	5	5	5	5	5
Mut. Rate	50	50	20	80	20
Max. Mut. Size	1	1	1	1	1
Generations	50	50	50	50	50
Num. Restarts	5	5	5	5	5
Population Size	50	50	50	50	50
Transpositions	100	100	100	100	100
Transpo. Increase	5	5	5	5	5
Transpo. Decrease	5	5	5	5	5
Tournament Size	5	4	5	5	5

Table 5.2: System parameters for the unseeded and nearest neighbour seeded RRGAs on both representations

Exp. Set	1	2	3	4	5
Xover Rate	50	50	80	20	80
Max. Xover Size	5	5	5	5	5
Mut. Rate	50	50	20	80	20
Max. Mut. Size	1	1	1	1	1
Generations	50	50	50	50	50
Num. Restarts	5	5	5	5	10
Population Size	50	50	50	50	50
Transpositions	100	100	100	100	50
Transpo. Increase	5	5	5	5	5
Transpo. Decrease	5	5	5	5	5
Tournament Size	5	4	5	5	5

Table 5.3: System parameters for the minimal spanning tree seeded RRGAs on the direct representations

Exp. Set	1	2	3	4	5
Xover Rate	50	50	80	20	80
Max. Xover Size	5	5	5	5	5
Mut. Rate	50	50	20	80	20
Max. Mut. Size	1	1	1	1	1
Generations	50	50	50	50	50
Num. Restarts	5	5	5	5	10
Population Size	50	50	50	50	50
Transpositions	100	100	100	100	150
Transpo. Increase	5	5	5	5	5
Transpo. Decrease	5	5	5	5	5
Tournament Size	5	4	5	5	5

Table 5.4: System parameters for the minimal spanning tree seeded RRGAs on the indirect transposition representations

comparisons. Once this analysis is done one can count how many times each algorithm was the best performing. In addition to attempting to determine if there is consistency in algorithm performance there will be a count of how many sets of system parameters found the best result to determine if any set of system parameters consistently outperforms the others.

5.2 Bin Packing Problem

The goal of the bin packing problem (BPP) is to pack a certain number of items with varying sizes into the least possible amount of bins. Two different data sets are studied in this work.

5.2.1 Purpose

The purpose of studying the BPP in this work is twofold. The first motivation is to analyze the effectiveness of the RRGAs and the representations on this type of grouping ordered gene problem. The second reason this problem is being studied is to demonstrate the areas where the RRGAs excel over a conventional GA. A focus is being given to the second purpose. It is important to note that there are more ideal representations that have been shown to produce very high quality results with basic GAs. These representations are not being utilized in this work as these representations often achieve optimal or near optimal results which would lack any significant demonstration of the pros and cons of the RRGAs.

5.2.2 Fitness

The fitness function in this work is based on the first fit heuristic. This first fit heuristic states that one should place the object into the first bin in which there is room for it to fit. If no such bin exists create a new bin and place this object within it. The pseudocode for the BPP's fitness function can be seen in Algorithm 18.

Algorithm 18 BPP Fitness Algorithm

```

Receive Chromosome  $C$  as Input
Create Flag and Set Off
Initialize NumberOfBins to 1
Add a Bin
for Each item  $i$  do
  for Each Bin  $b$  do
    if  $i$  can fit into  $b$  then
      Reduce Space Left in  $b$  by Size of  $i$ 
      Set Flag On
      Break
    end if
  end for
  if No Flag Set then
    Increment NumberOfBins
    Add New Bin and Reduce Space Left in New Bin by Size of  $i$ 
  end if
  Reset Flag to Off
end for
Return NumberOfBins

```

5.2.3 Data Sets

Two distinct data sets were used. The first was generated by Falkenauer and was used in studies exploring grouping representations and appropriate genetic operators [55]. This data set contains 20 unique instances and was selected as it supplies a large range of problem instances that have multiple properties making them very inconsistent. This is ideal for thoroughly vetting an algorithm. The second data set is called the “hard28”. These 28 data sets were created by Schoenfeld [127] and are known for their small size and high level of difficulty [31].

Generations	50K / Pop. and 500K / Pop.
Population Size	11 and 51
Crossover Rate	80
Mutation Rate	20 and 50
Number of Mutation Events	2
Restart after X Generations of no Learning	0*, 100, and 1000
Number of Trans.	100
Trans. to Decrease by on Imp.	5
Trans. to Increase by on no Imp.	10
Memetic	Yes or No

Table 5.5: System parameters for the bin packing problem. * 0 Signifies no restarts are occurring.

5.2.4 System Parameters

The system parameters used can be seen in Table 5.5. Every combination of these system parameters was used when studying this problem. Note that the number of generations is dependent on the population size. This is done to ensure a consistent number of mating events to give a fair analysis between algorithms and sets of system parameters. Notice the different values for the number of generations allowed on the distinct groups of experiments (*50000 / Population Size* for the *u* instances and *500000 / Population Size* for the *hard28* instances). This was done due to the varying difficulty of the two sets of data. A memetic variation of the RRGAs was studied which used 2-Opt as a local search done between restarts. These values were determined empirically through preliminary testing of this and similar problems. All experiments were run 30 times to ensure statistical significance.

The dynamic restart paradigm was used for this problem with a fixed number of transpositions being added or removed on a restart.

All GAs were seeded with either the identity permutation or a relatively good solution obtained with 2-Opt. Normally seeding a basic GA with a high quality solution results in stagnation but the RRGAs can remove itself from local optima due to the nature of the local search representations.

5.2.5 Analysis

All results will be analyzed multiple ways. The mean, max, and standard deviations are recorded for each run and are used to analyze how consistent the results are within the 30 runs. These values are also used to determine which, if any, set of

system parameters performed better. These values are also used to compare the results of the two representations. A paired t-test will be done to determine if there is any statistical difference between the results obtained from the two representations. One thing that will be taken special note of is the effect the seeds will have on the results of the RRGA versus the basic GA. Additionally, the memetic variation will be analyzed to determine if it has any significant impact on the results.

5.3 Graph Colouring Problem

The vertex colouring variation of the graph colouring problem (GCP) is similar to the bin packing problem as it is a grouping ordered gene problem. The goal of the GCP is to use a minimal number of colours to colour each vertex such that no adjacent vertex has the same colour.

5.3.1 Purpose

The purpose of the GCP is very similar to the BPP; study the effectiveness of the RRGA on this problem and to study the strengths and weaknesses of the algorithm. Just like the BPP the main focus is on the second point. Note that once again the grouping representation and genetic operators discussed by Falkenaure [55] would most likely produce the best quality results. Using this approach would defeat the purpose of this study as it would simply produce near optimal results making it difficult to analyze the effectiveness of the RRGA.

5.3.2 Fitness

The fitness function for the vertex colouring variation of the graph colouring problem is based on the heuristic which tries to colour each vertex with the smallest available colouring (based on some ordering) such that none of the adjacent vertices have the same colour. If there is no available colour that fits this criterion then add another colour. The fitness function for the GCP can be seen in Algorithm 19. This algorithm colours vertices with numbers instead of actual colours as they are easy to order.

5.3.3 Data Sets

Selecting the data sets for the GCP was a difficult task as there is a wide range of “difficulty”. Ultimately the data sets can be found at [67]. The goal was to

Algorithm 19 Vertex colouring variation of the graph colouring problem's Fitness Algorithm

```

Receive Chromosome  $C$  as Input
Initialize  $NumberOfColours$  to 1
Initialize  $CurrentColour$  to 0
Initialize  $CurrentNode$ 
for Each Index  $i$  in  $C$  do
     $CurrentNode = C[i]$ 
     $CurrentColour = 1$ 
    for Each Index  $j$  in  $C$  do
        if  $C[i]$  is adjacent to  $C[j]$  then
            if  $C[j]$  is  $CurrentColour$  then
                Increment  $CurrentColour$ 
                Reset  $j$  to -1
            end if
        end if
    end for
    if  $CurrentColour > NumberOfColours$  then
         $NumberOfColours = CurrentColour$ 
    end if
    Set  $CurrentNode$  to  $CurrentColour$ 
end for
Return  $NumberOfColours$ 

```

Generations	500000 / Population Size
Population Size	11 and 51
Crossover Rate	80
Mutation Rate	20 and 50
Number of Mutation Events	2
Restart after X Generations of no Learning	0*, 100, and 1000
Number of Transpositions	2x Solution Length
Transpositions to Decrease by on Improvement	0.95 (5% decrease)
Transpositions to Increase by on no Improvement	1.10 (10% increase)

Table 5.6: System parameters for the vertex colouring variation of the graph colouring problem. * 0 Signifies no restarts are occurring.

use a group of data sets that were considered highly difficult but would run in a reasonable amount of time. Finding this median was challenging as the time required to solve these problems increased rapidly as the number of nodes and connections increased. Dozens of the most challenging instances were analyzed but in the end 18 were selected. These 18 instances were selected as they would typically complete a run of 30 in less than 20 hours but more than an hour. This was done to ensure a reasonably challenging group of data sets.

5.3.4 System Parameters

The system parameters used in this work for the GCP are very similar to those of the BPP as they are similar problems. These values can be seen in Table 5.6.

All combinations of these system parameters were used when studying the GCP in this work. Again, in order to ensure a fair comparison the number of mating events should be constant. This is achieved by making the number of generations inversely proportional to the size of the population. Unlike the BPP no memetic version of this problem was analyzed. The values of the system parameters were determined empirically through preliminary testing of this and similar problems. All experiments were run 30 times to ensure statistical significance.

The dynamic restart paradigm and the factor approach to initializing the number of transpositions was used for the GCP with the percentage alteration of the number of transpositions. The identity permutation and a solution obtained by 2-Opt were used as seeds on all GAs run on this problem.

5.3.5 Analysis

The analysis performed on this problem is the same as the one for the BPP less the investigation of the memetic results. This means that the max, mean, and standard deviations were recorded in order to analyze the consistency and effectiveness of the particular experiment on the 30 runs. These values can be used to determine if any one set of system parameters performed better in general and to determine if one of the algorithm or representation variations performed better. The confidence intervals are also recorded to plot the results obtained by the algorithms.

5.4 Travelling Salesman Problem: Large Problem Instances

The travelling salesman problem is revisited, studying large problem instances as opposed to a collection of small city problems.

5.4.1 Purpose

Similar to the BPP and the GCP the purpose of studying this problem is to demonstrate the effectiveness of the RRGA and the dynamic representations and to demonstrate the strengths of the RRGA with respect to ordered gene problems. In addition to these objectives, another goal is to demonstrate that the Lin-Kernighan heuristic (LKH), although highly effective, will not always obtain optimal results. There are many heuristics that have been created for the TSP but the LKH is being specifically studied as it is being used on the DNA fragment assembly problem since it has been shown to be highly effective on the problem in addition to the TSP.

5.4.2 Fitness

The approach used for the fitness evaluation of the large TSP instances is the same as the small TSP instances. Refer to Section 5.1.2 for an explanation of the TSP fitness evaluation approach used in this work.

5.4.3 Data Sets

A total of 16 benchmark data sets were selected for the TSP large problem instances. These problem instances were obtained from DIMACS TSP implementation challenge

Gens.	500K / Pop. Size and 5M / Pop. Size
Population Size	11 and 51
Crossover Rate	80
Mutation Rate	20 and 50
Number of Mutation Events	2
Restart after X Gens. of no Learn	0*, 100, and 1000
Number of Trans.	2x Solution Length
Trans. to Decrease by on Imp.	0.95 (5% decrease)
Trans. to Increase by on no Imp.	1.10 (10% increase)
Island Model Specific Parameters	
Number of Islands	10
Number of Gens. Between Migration	1000
Number to Migrate During Migration	2
Ring Species Specific Parameters	
Max Distance to Mate	2

Table 5.7: System parameters for the Large TSP instances. * 0 Signifies no restarts are occurring.

[2] but can ultimately be obtained by TSPLIB [123]. Similar to the GCP instances selected these 16 were chosen for their difficulty and for not being too large that the computation time would be unrealistically large. All of these benchmarks selected have between 1000 and 2000 cities. These 16 benchmarks also have a large collection of very competitive results along with suspected optimum which can be used to analyze the quality of the results obtained by the RRGAs.

Another reason for selecting these particular instances is because the reported results show that the LKH algorithm does not find the suspected optimal solution [2].

5.4.4 System Parameters

Once again, the system parameters used for the large TSP instances are very similar to those of the BPP and GCP. Three variations of RRGAs are used studying this problem: RRGAs, RRGAs using the Island Model (RRGA+IM), and RRGAs using Ring Species (RRGA+RS). There are some algorithm specific system parameters. These system parameters can be seen in Table 5.7.

The dynamic restart approach, factor approach to initializing the number of transpositions, and the percentage alteration of transpositions were used for the large TSP instances in this work. In addition, three seeds were used for this problem: identity permutation, 2-Opt solution, and LKH solution.

All combinations of these system parameters were used to fully analyze the system parameters. The number of generations is dependent on the population size which is done to ensure a consistent number of mating events to give a fair analysis between algorithms and sets of system parameters. These values were determined empirically through preliminary testing of this and similar problems. All experiments were run 30 times to ensure statistical significance.

5.4.5 Analysis

The analysis of these large TSP instances is very similar to those of the BPP and GCP. The max, mean, and standard deviation are calculated to perform an analysis of the results relative to one another. The confidence intervals are also recorded to plot the results for a visualization of the distribution of the results. Paired t-tests are also done to determine if any one of the algorithm combinations is statistically better than the others. An attempt to determine if any LKH seeds can be improved upon with the RRGA was done in hope of demonstrating that the LKH does not always achieve the optimal results.

The results are compared to other algorithms' results and the suspected optimal solutions that are available at [2]. The suspected optimal solutions were determined using the Concorde TSP Solver [3].

Unlike the previous experiments, the number of generations used was varied. This was done to determine the effect of the number of generations on the RRGA variations.

Lastly, 2-Opt will be used as a post optimization technique to determine how well a combination of heuristic and metaheuristics will perform. These results will be compared to the results obtained with no post optimization technique.

5.5 DNA Error Correction

Quaternary (related to DNA) error-correcting codes defined over the edit metric can be used as labels to track the origin of sequence data. When used as these labels there are typically additional restrictions motivated by biology. Some of these requirements might be the required GC content and avoiding certain unrealistic patterns. As a result such codes can not be expected to have a regular structure, making decoding a particularly challenging problem and forcing a requirement for high quality decoders.

Before the purpose of this work is discussed Side Effect Machines need to be presented.

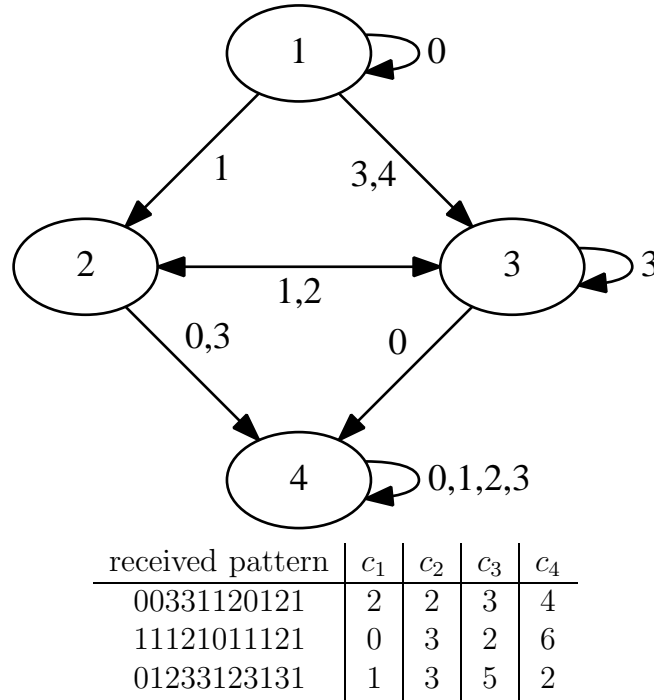


Figure 5.1: Example four state SEM with examples of output vectors [75]

5.5.1 Side Effect Machines

Side Effect Machines (SEMs) are an extension of Finite State Machines that associate a side effect with a state or transition. A common side effect for SEMs would be to increment values within a vector associated with each state to count the number of times each state is visited.

The side effect associated with each state is a count of the number of times each state is visited when a received string is run through the machine. The count vector is always initialized to zero and the predefined first state is used as the starting location. When a string is run through the SEM it is read one symbol at a time, transitioning between the states based upon the read symbol. When a state is visited a counter will increment by one within the vector.

Figure 5.1 shows a SEM with four states. Note that the SEM always begins on a set state which in this case will be state 1. The numerical signature, also known as a *classification vector*, is (c_1, c_2, c_3, c_4) where c_i , $1 \leq i \leq 4$, holds the number of times state i was visited. For example, an input of 00331120121 gives a path through the states of 11332324444. This path yields a classifying vector $c = (2, 2, 3, 4)$, since states 1 and 2 are each visited 2 times, state 3 is visited 3 times, and state 4 is visited 4 times. Note that in this example state 4 is a sink.

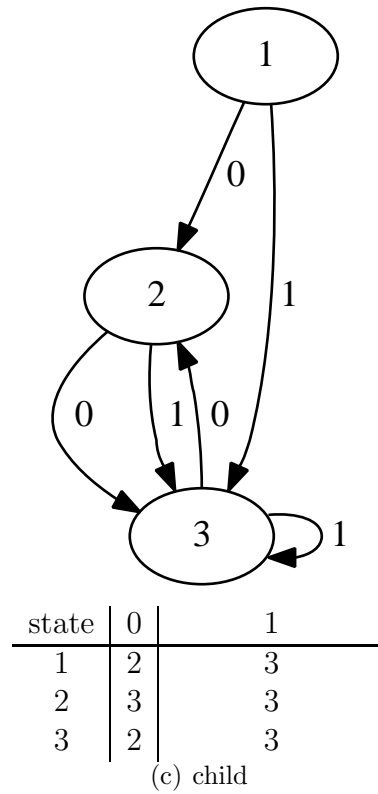
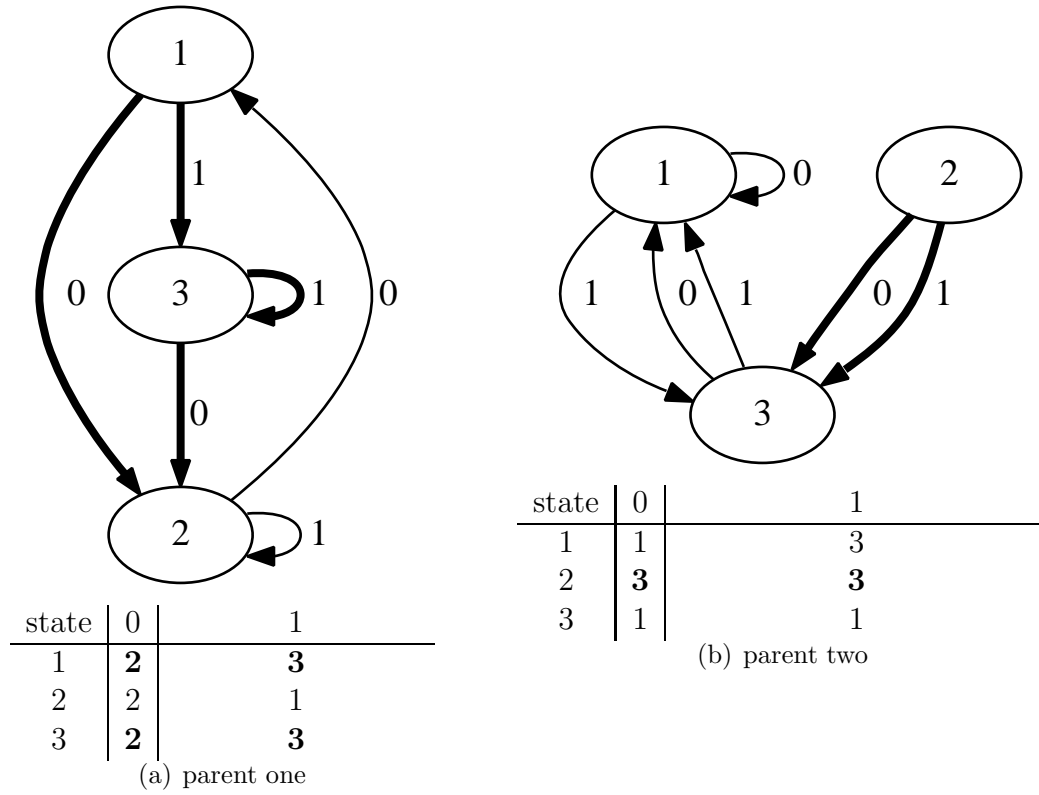


Figure 5.2: Crossover of a 3 state binary SEM — crossover point is the second state, the selected edges are bold. [75]



A SEM of S states accepting a language Σ is represented by a state transition structure of size $S \times |\Sigma|$. The genetic operators used for DNA error correction are not the same as the other genetic operators used in all other experiments. Two point crossover will be the crossover genetic operation used. Figure 5.2 demonstrates the two point crossover. The operation is defined as a selection of two state numbers and exchanging states between the two points (this is done inclusively). The crossover used for the indirect representation is again two point crossover. The mutation demonstrated in Figure 5.3, selects a random transition in the machine and changes the transition randomly. This type of mutation is commonly used as a very exploratory genetic operator.

The direct representation used for the centres defines a fixed number of states for each machine (note that this representation allows for a state to be disconnected). Figure 5.3 shows an example where both the initial machine and its mutation have no paths into State 2. A type of mutation called *null mutation* is used which makes no changes to the functionality of the machine or the fitness values. Although no functionality is being changed the mutation still has the ability to move the current location of the search within the search space. If a second mutation connects State 2 back into the machine then Figure 5.3(a) and Figure 5.3(b) would show machines with different behaviours. Isomorphic changes to the SEMs can also be generated (though the initial state must stay the same). Neither of these issues are necessarily harmful and could potentially be helpful as not all states in large machines may be necessary for a good fitness value.

Single Classifier Machine

The SEM can be considered as a *Single Classifier Machine* (SCM). Once a SEM is created codewords are run through it and the generated vectors are stored. This stored information creates a mapping from the classifying vector back to the codeword. The SEM, along with mapping vectors back to codewords, forms the *SCM decoder*.

The process of using SCMs to decode error patterns involves the production of the error code's classifying vector by running it through the SEM and comparing it to a codeword's classifying vector with Euclidean distance. SEMs are a probabilistic classifier meaning that not all decodings will be 100% accurate. Verification of corrections can be done by calculating the edit distance of the error pattern to the codeword. It is guaranteed that the correct decoding was produced if the edit distance is within the maximum number of errors a code can correct $((d - 1)/2$ for a code of minimum edit distance d). This guarantee can be made but at the additional cost of run time.

A negative verification would have an error response such as ‘unable to decode’.

Fuzzy Classifiers

Since SCMs already store each codeword’s classifying vector a SCM can be extended to make fuzzy classifications. In the direct classification the codeword with the closest classification vector based on Euclidean distance is chosen. For the fuzzy classification vectors of all possible codewords are sorted into a non-decreasing list based on Euclidean distances. This list is then compared to the error pattern’s resulting vector until a classification vector is found that is less than or equal to $(d - 1)/2$. This will result in a correct decoding.

A tolerance value for the Euclidean distance searched by the fuzzy classification can be made to restrict the number of classification vector comparisons. This allows for faster run times but could potentially yield results of ‘unable to decode’. This tolerance is the maximum radius of a hypersphere around the error pattern’s classifying vector within which one looks for valid codewords [36][75]. This allows for a search of all codewords such that the Euclidean distance from the classifying vector is less than the selected radius (tolerance). One could have a radius of infinity resulting in exploring all possible codewords but this would result in longer run times. The goal is to ensure a correct decoding early in the list to reduce run time.

5.5.2 Purpose

We will generate SEMs (either SCMs or through fuzzy classification) that can be effectively used for DNA error correction. These SEMs will be evolved with either a basic GA or the RRGGA. Previous work successfully decoded up to 93.86% of error vectors [35]. It would be ideal to surpass this result with the RRGGA. If this can be achieved it would demonstrate the strengths of the RRGGA when being applied to a problem that differs from the ordered gene problems that are being studied.

5.5.3 Fitness

When evolution occurs in the GAs an encoding of a SEM is evolved when using the direct representation and a set of transpositions is evolved which will need to be applied to some centre to become an encoding of a SEM. This encoding is used to evaluate the fitness of the SEM.

Error patterns are passed to a SEM which produces its classification vector. These classification vectors are compared to the classification vector of the actual correct

Gens.	50K / Pop. Size
Population Size	11, 25, 51, and 101
Crossover Rate	90
Mutation Rate	10 and 30 (some experiments)
Number of Mutation Events	1, 2, 7, and 12
Number of Restarts	1, 4, and 15 (Direct Rep.), 30 (Trans. Rep.)
Number of Trans.	100
Trans. to Decrease by on Imp.	20 (Direct Rep.) and 7 (Trans. Rep.)
Trans. to Increase by on no Imp.	30 (Direct Rep.) and 7 (Trans. Rep.)
Number of SEM States	2, 3, 4, 6, 12, and 18

Table 5.8: System parameters for DNA error correction

codeword. The goal is to minimize the Euclidean distance between these two classification vectors for all error patterns and their codewords. The fitness function used for the evaluation of the SEM can be seen in Algorithm 20. A correct classification is achieved when an error pattern's classification vector is closest to its codeword's classification vector, i.e. it is not closer to any other codeword's classification vector.

5.5.4 Data Sets

Three separate codes are used in the experimental analysis. One is of the form $(12, 55, 7)_4$; a quaternary code of length 12 with a minimum edit distance of 7 containing 55 codewords. The other two are $(12, 60, 7)_4$ codes; quaternary codes of length 12 with a minimum distance 7 containing 60 codewords. Errors of distances 1, 2, and 3 are examined such that the errors are a combination of insertions, deletions, and substitutions. These codes were obtained from previous work and allow for a comparison between the results [35].

Two sets of n error patterns of these distances are created for each codeword. One of these two sets will be used as the training set while the other will be used strictly for verification to ensure that the system is not simply memorizing values.

5.5.5 System Parameters

These system parameters can be seen in Table 5.8.

Every combination of system parameters (with few exceptions) were executed. Once again the number of mating events was kept constant by making the number of generations inversely proportional to the population size. This is done for a fair comparison between results of different system parameters. This experiment used a

Algorithm 20 DNA Error Correction Problem's Fitness Algorithm

```

Receive Chromosome SEM as Input
Initialize ClassificationVector Vector
Initialize CurCodeWord Vector
Initialize CurPattern Vector
Initialize ShouldBeDist Integer
Initialize Fitness Integer
for Each Coreword CW do
  for Each Error Pattern EP do
    Reset SEM
    for Each Value v in CW do
      Run v Through SEM
    end for
    Receive ClassificationVector From SEM
    Reset SEM
    for Each Value e in EP do
      Run e Through SEM
    end for
    Receive CurPattern From SEM
    Calculate Dist. Between CurPattern and ClassificationVector
    for Each Codeword i do
      if i and CW are equal then
        Skip
      end if
      Reset SEM
      for Each Value e in i do
        Run e Through SEM
      end for
      Receive CurCodeword From SEM
      if Dist. Between CurPattern and CurCodeword  $\leq$  ShouldBeDist then
        Decrement Fitness
        Break
      end if
    end for
    Increment Fitness
  end for
end for
Return Fitness

```

static number of restarts and a fixed number of transpositions being added or removed on a restart. There were different values given for the number of restarts for the two representations as preliminary tests showed that the transposition representation performed much better with more restarts and the direct representation performed better with less restarts. As previously mentioned different genetic operators are used when working with the SEMs.

Some experiments were given different values such as a higher mutation rate for the basic GA or more generations. This was done as an exploration of the system parameters and the obtainable results.

Two distinct sets of experiments were performed when studying DNA error correction: using machines with 4, 6, 12, and 18 states with a fuzzy tolerance of 3 and using machines with 2, 3, and 4 states with a fuzzy tolerance of 2. The second set was conducted after the first was completed to pursue observations made in the first set.

All values were determined empirically through preliminary tests and each of these combinations of system settings was executed 30 times to ensure statistical significance.

5.5.6 Analysis

The results will be analyzed in two distinct ways: with SCMs and with fuzzy classifications. It should be expected that the fuzzy classification will greatly outperform the SCM as the SCM is less powerful. The algorithms are run on the training set and then the verification set is used to determine if the GAs actually generated high quality SEMs. The sweep of system parameters is being done to ensure that each algorithm is given enough opportunity to perform well. The results will be compared to one another to determine which algorithm performs the best and to determine the effect of the number of SEM states on the results. Results obtained are compared to the results done in a similar, previous work, as it used the same data [35].

5.6 DNA Fragment Assembly

The DNA fragment assembly problem (FAP) is a major component of the DNA sequencing process that is identified as being NP-hard. A variety of approaches to this problem have been used, including overlap-layout-consensus, de Bruijn graphs, and greedy graph based algorithms. The overlap-layout-consensus approach is one of

the more popular strategies which has been studied on a collection of heuristics and metaheuristics.

Parsons observed that the DNA fragment assembly problem resembled the travelling salesman problem (TSP) but argued that it could not be easily translated for a variety of reasons. Mallén-Fullerton and Fernandez-Anaya managed to overcome the obstacles posed by Parsons with significant results [101]. A minimal number adjustments are required to alter a DNA fragment assembly problem instance to work with popular TSP algorithms.

5.6.1 Purpose

The focus of this work using the OLC approach is the most challenging part, namely the layout phase. Each fragment from the problem instance must be used once and only once in a potential layout (permutation). The major goal is to maximize the overlap score of a layout to generate a tighter and better quality contig.

In addition to actually generating high quality contigs for real world data the effectiveness of the algorithms used will also be analyzed.

Lastly, this study is being done to determine how effective TSP heuristics are when applied to the DNA fragment assembly problem.

5.6.2 Fitness

Because the data sets used in this work are presented in TSPLIB format the fitness evaluation algorithm is extremely similar to the one used for the small and large TSP instances. The evaluation method can be seen in Algorithm 21. Note that the only difference between this algorithm and the one seen for the TSP is that this algorithm does not require the last step of adding the score between the last and first elements. This fitness function is based on Equation 3.2.

Algorithm 21 DNA Fragment Assembly Fitness Algorithm

```

Receive Chromosome  $C$  as Input
Initialize  $OverlapScore$  to 0
for Each Index  $i$  from 0 to  $LengthofC - 1$  do
     $OverlapScore = OverlapScore + \text{distance between } C[i] \text{ and } C[i + 1]$ 
end for
Return  $OverlapScore$ 

```

Two additional fitness evaluation methods (Equations 3.3 and 3.4) were analyzed

but preliminary testing suggested that they lacked in performance and were not fully explored.

5.6.3 Data Sets

The data sets selected for this work are a collection of sixteen popular benchmarks which have been used previously in a variety of works. Table 5.9 summarizes details about these data sets and Table 5.10 contains a collection of results obtained by popular metaheuristics on the corresponding data sets [102].

x60189, *m15421*, *j02459*, and *bx842596* were generated by dividing them into overlapping fragments using a tool called GenFrag 2.1 [54] which is a UNIX/C application. GenFrag accepts a nucleotide sequence as input and generates a set of overlapping fragments based on some predefined parameters. This tool is useful for testing fragment assemblers. Note that GenFrag 2.1 may produce slightly different output due to different random numbers being used, so it cannot be guaranteed that exactly the same results will be produced every time.

The ACIN sequences have a very wide range of instances. These sequences were fragmented using a different application called the DN Agen [110]. These sequences were selected for their varying difficulty levels.

An additional collection of fourteen data sets called the *f*-series is also studied. Little information is known about these instances and their original genome and coverage is unknown. These instances are also studied for a more complete analysis.

For various reasons, such as the random numbers in GenFrag, these instances had little consistency with respect to the actual values within the data sets. This led for the necessity of creating a standard set of benchmarks. This was achieved by creating overlap matrices based on the fragments generated by the sequencing technology.

This used the Smith-Waterman algorithm, a dynamic programming local sequence alignment algorithm [130]. The settings most used for this algorithm are 1 for a match, -3 for a mismatch, and -2 for a gap. Because the proper orientation is unknown Smith-Waterman must be executed for every combination of fragments in both orientations (regular and reverse compliment). Once the maximum score is found by the Smith-Waterman algorithm the actual length of the overlap needs to be calculated. These overlap lengths are then collected and placed into a matrix of overlap scores so one can easily look up the length of the overlap between any two fragments. This whole process is simple to implement but is very time consuming.

The process of generating the benchmarks was very difficult and used a clever

Benchmark	Coverage	Mean Frag. Len.	Num. Frags.	Original Seq. Len.
GenFrag Instances				
x60189 4	4	395	39	3835
x60189 5	5	286	48	
x60189 6	6	343	66	
x60189 7	7	387	68	
m15421 5	5	398	127	10089
m15421 6	6	350	173	
m15421 7	7	383	177	
j02459 7	7	405	352	20000
bx842596 4	4	708	442	77292
bx842596 7	7	703	773	
DNAgen Instances				
acin1	26	182	307	2170
acin2	3	1002	451	147200
acin3	3	1001	601	200741
acin5	2	1003	751	329958
acin7	2	1003	901	426840
acin9	7	1003	1049	156305
<i>f</i> -series				
f25_305		25	307	
f25_400		25	400	
f25_500		27	500	
f50_315		50	315	
f50_412		50	412	
f50_498		50	498	
f100_307		100	307	
f100_415		100	415	
f100_512		100	512	
f508_354		508	354	
f635_350		635	350	
f737_355		737	355	
f1343_354		1343	354	
f1577_354		1577	354	

Table 5.9: Summary of small benchmark data sets along with the known information about the *f*-series data sets. More details about these data sets can be found in [102] [4]

Benchmark	LKH [71]	PPSO+DE [101]	QEGA [83][121]	SA [58]	PALS [108]	SAX [108][110]	POEMS [92]
Sixteen Popular Instances							
x60189 4	11478	11478	11478	11478	11478	11478	11478
x60189 5	14161	13642	14027	14027	14021	14027	
x60189 6	18301	18301	18266	18301	18301	18301	
x60189 7	21271	20921	21208	21271	21210	21268	21261
m15421 5	38746	38686	38578	38583	38526	38726	38610
m15421 6	48052	47669	47882	48048	48048	48048	
m15421 7	55171	54891	55020	55048	55067	55072	55092
j02459 7	116700	114381	116222	116257	115320	115301	116542
bx842596 4	227920	224797	227252	226538	225782	223029	227233
bx842596 4	445422	429338	443600	436739	438215	417680	444634
acin1	47618	47264	47115	46955	46876	46865	
acin2	151553	147429	144133	144705	144634	144567	
acin3	167877	163965	156138	156630	156776	155789	
acin5	163906	161511	144541	146607	146591	145880	
acin7	180966	180052	155322	157984	158004	157032	
acin9	344107	335522	322768	324559	325930	314354	

Table 5.10: Results for the commonly used sixteen benchmark data sets [101]. This table assumes the results were obtained with the use of the same scoring matrices.

algorithm to eliminate useless and redundant overlaps. For the full details about how these benchmark data sets were generated please refer to [102].

The scoring matrices are presented in TSPLIB format and can be easily used by algorithms to maximize the overlap score. Table 5.10 shows a collection of results for these sixteen benchmark data sets. These algorithms all have very high overlap scores.

If an algorithm were to have success with relatively small benchmarks it would be beneficial to test that algorithm on much larger, scaled up instances, such as real world problems. In the case of the DNA fragment assembly problem one could simply take living organism sequences to create these large scaled up instances. Although the small benchmarks can supply a proof of concept, large, real world data can explore the potential of proposed strategies. Because of this two additional instances was selected which is much larger than all other instances, namely one based on staphylococcus aureus COL (COL) and staphylococcus aureus MW2 (MW2). The COL data set has long reads and contains 18,021 fragments which was derived from an original 50,036 fragments by eliminating non-related and redundant fragments. The MW2 data set is made up of a 3.86 million bases but after redundancy is eliminated one is left with 2.66 million unique reads with a raw coverage of about 48 [72]. Since this instance is so large it is broken down into sub problems. The smallest sub problem (22,447 bases) is studied as it is the most manageable with current resources. These instances were generated in a similar way to the smaller instances but with a more rigorous approach to eliminating redundant information [102].

It is important to note that these benchmarks are built upon existing benchmarks

Gens.	100M / Pop. Size and 1M / Pop. Size*
Population Size	11, 51, and 101*
Crossover Rate	80
Mutation Rate	20 and 50
Number of Mutation Events	5
Number of Restarts	0, 5, 10, and 20
Number of Trans.	100 and 2x Solution Length**
Restart after X Gens. of no Learn**	0***, 100, and 1000
Trans. to Decrease by on Imp.	5 and 0.95 (5% decrease)**
Trans. to Increase by on no Imp.	10 and 1.10 (10% increase)**
Island Model Specific Parameters	
Number of Islands	10
Number of Gens. Between Migration	500, 5000, and 1000**
Number to Migrate During Migration	2
Ring Species Specific Parameters	
Max Distance to Mate	2

Table 5.11: System parameters for the set of DNA fragment assembly problem experiments. * Large Instances Only. ** Second, Third, and Fourth set of experiments. *** 0 Signifies no restarts are occurring.

and were not created with any bias towards a particular algorithm or classification of algorithms.

5.6.4 System Parameters

Many different sets of these experiments were conducted. A collection of Genetic Algorithm (GA) variations were selected for use: Recentering-Restarting GA (RRGA), RRGA with Island Model (RRGA+IM), and a RRGA which uses Ring Species (RRGA+RS). These variations were also used in combination to better explore the search space to maximize the significance of the results. Note that these combinations also consider a basic GA with the Island Model and Ring Species. The system parameters used can be seen in Table 5.11.

These values were determined empirically through preliminary tests and each of these combinations of system settings was executed 30 times to ensure statistical significance. All combinations of system parameters (in their respective experiments) were executed.

A memetic variation of the algorithm using 2-Opt as a local search after each restart was briefly studied although preliminary results showed no benefit with a substantial increase in run-time. However one could still consider the system loosely

memetic as there are cycles of local search and metaheuristics (discussed below). The indirect transposition representation is built upon local search principles.

Many sets of experiments were done with respect to the DNA fragment assembly problem. The first used the static restart paradigm and with a fixed value by which to alter the number of transpositions. This first batch was seeded with either the identity permutation, a 2-Opt solution, or an LKH solution. This first patch also features experiments using 2-Opt as post optimization. The first batch can be described as follows: *metaheuristic*, *heuristic* \rightarrow *metaheuristic*, and *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic*.

The second batch used a dynamic number of restarts, factor approach to initializing the number of transpositions, and used the percentage approach to change the number of transpositions. This second batch was seeded with either the identity permutation or a 2-Opt solution. Once again, post optimization was used with 2-Opt. This set of experiments also studies the effects of forcing a recentering after the first restart regardless of whether or not the best chromosome after the GA run is actually better than the current centre. The second batch can be described as follows: *metaheuristic*, *heuristic* \rightarrow *metaheuristic*, and *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic*.

The third batch was a repeat of the second batch of experiments except in this case the metaheuristics were run again after the post optimization followed by an additional 2-Opt post optimization. The third batch can be described as follows: *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic* \rightarrow *metaheuristic* and *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic*.

The fourth and last set was the same as the third but the representation was switched for the second metaheuristic run. For example, if the first time the metaheuristic ran with the direct representation then the second run would use the indirect transposition representation. The fourth batch can be described as follows: *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic* \rightarrow *metaheuristic* (*representation*) and *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic* \rightarrow *metaheuristic* (*representation*) \rightarrow *heuristic*.

5.6.5 Analysis

The ultimate goal is to produce an algorithm that can generate the best possible configurations of the fragments to best match the real, original sequence. This means that the results obtained are compared to the results obtained by the most competitive results seen in Table 5.10. It is important to take special note of the LKH results as it has been suggested that this algorithm can obtain the optimal in many relatively

small problem instances [101].

In addition the algorithm combinations and representations are compared to one another to determine if there is a trend in which algorithm performs the best. The system parameter results are also analyzed to determine how effective a given set of system parameters are and if they have a large impact on the final results.

Chapter 6

Analysis and Discussion

This chapter contains a summary of the results obtained by the experiments along with a brief analysis of these values. A collection of all results for each experiment can be found in the Appendices.

6.1 Travelling Salesman Problem: Small Problem Instances

Table 6.1 gives a summary of how many times each algorithm was the best, or tied for the best performing on each set of cities. Note that the total number for each set of cities can exceed 100 as these values include ties.

A more complete detailed set tables of the results for these small TSP instances can be seen in Section A.1. These tables are broken down first by the number of cities in the problem instances and then into two by grouping the first with instances 0 through 49 and the second with instances 50 through 99. There are a total of 10 tables since there are 5 sets of instances (12, 14, 16, 18, and 20 city instances) and each set is broken into two tables. In these tables, each set of system parameters that achieved or tied the best result are recorded. For example, in Table A.1 one can see that the basic GA with the direct representation obtained the best result with all four sets of system parameters for instance 0 but the RRGGA with a direct representation using the minimal spanning tree seed only obtained the best result with the first, second, and fourth sets of system parameters. One can also see that the basic GA using the indirect representation did not obtain the best result with any set of system parameters on instance 2.

When referring to Table 6.1 it can be observed that all variations of the algorithm

Number of Cities	Total Count of Times Being Best Performing (Including Ties)							
	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
12	100	76	100	85	100	79	79	99
14	99	13	82	22	75	13	18	77
16	95	1	21	2	18	2	3	28
18	88	0	3	0	4	0	0	11
20	87	0	5	0	2	0	0	6

Table 6.1: Summary of Algorithm Performance on the TSP Small Problem Instances

performed very well on the 12 city instances. One thing to take particular note of is how the indirect representation did not perform as well as the direct representation except on the runs seeded with the minimal spanning tree solution. An explanation for this could be that the indirect representation is better at polishing an already good solution. This is reasonable since the minimal spanning tree seed is better quality (in general) than the other seeds used and the indirect representation is built on local search principles. A very similar trend can be seen with the other number of city instances although the values drop rapidly.

Table 6.1 also shows that the basic GA with a direct representation tends to dominate as the number of cities increase. This trend seems unreasonable as the RRGA has been shown to greatly outperform basic GAs in many cases [78][75][76][17][23].

This study is not identical to, but still very similar to the study of small TSP instances done in [78][76] which demonstrated that the basic GA tends to perform very well on these small instances. A reason for this could be the nature of the RRGA and how it periodically start over; a very destructive process. It is unlikely that the RRGA variations had the opportunity to generate high quality solutions before restarts occurred. This allows one to reason that the basic GA has a major advantage in these small search spaces with a minimal number of generations as it does not have this destructive step.

An interesting note relates to the hypothesis in [78] and [76] that the trend of the basic GA performing the best would be eliminated as the number of cities was increased from 12. This was not the case and the opposite happened. It is speculated that there is still some turning point where this trend is reversed and the RRGA would begin to outperform the basic GA. Another reasonable approach would be to increase the number of generations the algorithms are given. This would allow the RRGA variations to have a fair chance in competing with the basic GAs.

Total Count of Times Being Best Performing (Including Ties)								
Number of Cities	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
12	100	99	100	100	100	100	100	100
14	100	72	100	100	100	100	100	100
16	98	12	99	97	99	92	87	99
18	89	0	93	48	89	30	28	81
20	66	0	69	15	53	7	5	50

Table 6.2: Summary of Algorithm Performance on the TSP Small Problem Instances with Additional Generations

6.1.1 Increased Number of Generations

Because it was assumed that the RRGAs variations were not given enough time to excel at the problem instances the experiments were conducted again exactly the same way but with the generations increased by a factor of 10. Table 6.2 gives a summary of how many times each algorithm was the best or tied the best performing on each set of cities. The complete detailed set of tables for the results for these small TSP instances can be seen in Section A.1.1.

One can see that this is a much more fair comparison because the results show how the RRGAs variations are given a fair chance to compete. For example, consider the performance of the direct RRGAs on the 20 city problems between the two tables. Before the addition of more generations the direct RRGAs was only able to produce the best result 5 times while the basic GA got the best solution 87 times. After the addition of more generations the direct RRGAs achieved the best result 69 times which was an increase of more than a factor of 10. This improvement was not gained by giving the basic GA a disadvantage, but rather, it was gained due to the elimination of the disadvantage from the RRGAs variations.

All tables presenting the results clearly demonstrate that no one algorithm always dominates. As the number of cities increases there becomes a clear trends as to which algorithm performs best but by no means does one completely take over. Similar to the previous results, the number of system parameters which achieved the best results were very chaotic and many combinations produced very competitive solutions.

If one were to increase the number of generations again it would be expected that the RRGAs would suddenly have an unfair advantage, that is, the RRGAs variations excel at avoiding local optima and converging early.

6.2 Bin Packing Problem

The complete set of tables for all system parameter combinations on all problem instances can be found in Section A.2 and Table 6.3 provides a summary of the best results. The results for the u problem instances can be found in Section A.2.1 and the results for the hard28 problem instances can be found in Section A.2.2. These data sets were described in Section 5.2. All tables found in Section A.2 are presented in a way such that each combination of system parameters are represented. The best value achieved, average result over 30, and the standard deviation are all presented in these tables for each experiment. The best value achieved is also presented as a percentage off of the optimal solution. The tables are also broken down by the number of no learning generations to allow before a restart: ∞ (meaning basic GA), 1000, and 100. The optimal value for the specific instance is included in the description of each table.

Plots that summarize the results can be seen in Section B.1 with the u problem instances' plots in Section B.1.1 and the hard28 problem instances' plots in Section B.1.2. These plots give a visual comparison of the performances of the two representations with bars representing the 95% confidence interval. These plots show the comparison for each set of restarts which allows one to see how well each variation of the algorithm works when comparing the representations and how well they work relative to one another based on the number of restarts.

The overall results of the RRGA variations on the BPP instances are good. There are multiple cases where the algorithms obtained the optimal on the hard28 instances and overall the majority of the results were extremely close to optimal. In almost all cases the best result found was seeded with 2-Opt.

When doing a quick analysis one can see that the direct representation tends to perform better on the BPP. Paired t-tests with 95% confidence were performed to compare both representations for each set of system parameters. For the u instances there was a lot of inconsistency; some were statistically different where many were not. The hard28 problem instances' results had inconsistencies but much less and in general the direct representation outperformed the indirect representation. When comparing only the best results of the one representation to the best of the other it becomes even more clear that on both the u and hard28 instances the direct representation performs the best.

There are some small differences in the results when analyzing the effectiveness of the memetic variation of the algorithm but in general there is no statistical difference.

Areas where the memetic variation of the algorithms excelled was when there were a high number of restarts. This would be expected since the number of local searches executed was related to the number of restarts. A particularly good example of this can be seen in Table A.104.

When studying the plots one can see that as the likelihood of more restarts occurring increased, so did the quality of the solutions. Many of the plots demonstrate this trend but there are some cases where too many restarts did not benefit performance. In all cases some number of restarts provided an increase in performance or at the very least a tie with the basic GA. This trend appears to be amplified when considering the indirect representation.

In many runs it appears that as the likelihood of more restarts occurring increased the standard deviation and the range of the 95% confidence interval decreased. This suggests that there is a correlation between the number of restarts and the consistency of all results.

An interesting trend that can be observed on the hard28 instances is that the basic GA performs better when starting with the random seed as opposed to the 2-Opt seed. This seems unusual as 2-Opt produces such a good starting point. An explanation for this phenomenon is that the 2-Opt solution starts the GA at a local optimum from which the basic GA cannot escape. This problem appears to disappear as restarts are introduced. Many of the results obtained using restarts tie or surpass the results obtained when starting with a random seed. These trends can be seen in many tables in Section A.2.2.

These results demonstrate the quality of the results obtained by the RRGGA. In addition, these results show how effective the restarts are at avoiding stagnation on a local optimum.

6.3 Graph Colouring Problem

The complete set of results for all experiments conducted with regards to the GCP can be seen in the tables in Section A.3 and Table 6.4 provides a summary of the best results. All tables found in Section A.3 are displayed such that each combination of system parameters are represented. The best (lowest) chromatic number achieved, average result over 30, and the standard deviation are all presented in these tables. The tables are also broken down by the number of no learning generations to allow before a restart: ∞ (meaning basic GA), 10000, 1000, and 100. The description of each table includes the lower bound for the appropriate problem instance. Note that

Data Set	Theo. Opt.	Best Direct	Avg. Direct	Best Trans.	Avg. Trans.
u1000_00	399	412	413.8	412	414.2
u1000_01	406	419	421	420	421.1
u1000_02	411	425	426	425	426.4
u1000_03	411	425	426.7	425	426.8
u1000_04	397	410	412	411	412.3
u1000_05	399	412	413.4	412	413.1
u1000_06	395	407	408.1	408	408.8
u1000_07	404	417	418.3	418	419
u1000_08	399	411	413.1	412	413.4
u1000_09	397	411	411.6	410	411.5
u1000_10	400	413	414.1	413	414.7
u1000_11	401	415	416.3	415	416.7
u1000_12	393	405	406.2	405	406.4
u1000_13	396	408	409.4	408	409.5
u1000_14	394	408	409.5	408	409.7
u1000_15	402	416	417.4	416	417.6
u1000_16	404	417	417.8	417	418
u1000_17	404	417	418.5	418	418.8
u1000_18	399	412	413.3	412	413.4
u1000_19	400	413	413.9	413	414.5
h1	62	62	62	62	62
h2	60	61	61	61	61
h3	59	60	60	60	60
h4	62	63	63	63	63
h5	58	59	59	59	59
h6	64	65	65	65	65
h7	62	63	63	63	63
h8	63	64	64	64	64
h9	67	68	68	68	68
h10	64	65	65	65	65
h11	67	68	68	68	68
h12	68	69	69	69	69
h13	71	72	72	72	72
h14	72	73	73	73	73
h15	76	76	76	76	76
h16	71	72	72	72	72
h17	72	75	75	75	75
h18	76	76	76	76	76
h19	71	77	77	77	77
h20	74	74	74	74	74
h21	76	73	73	73	73
h22	77	72	72	72	72
h23	75	76	76	76	76
h24	84	84	84	84	84
h25	80	81	81	81	81
h26	80	81	81	81	81
h27	83	84	84	84	84
h28	81	82	82	82	82

Table 6.3: Summary of Best and Best Average Results After Post Optimization for BPP instances.

these lower bounds more than likely exceeded the optimal (i.e. have a lower chromatic number) and should not be assumed to be the best possible solution.

The plots that summarize the best results can be found in Section B.2. These plots compare the results obtained from the two different representations and the number of restarts used. These plots are of the means along with vertical bars that represent the 95% confidence interval. These plots are helpful as they are an easy way to compare the results of the best performing versions of the algorithms.

Overall the algorithm was able to obtain strong results, however it is difficult to determine how well these algorithms performed as many of the experiments are run on experiments with no known optimal solution. It is expected that results obtained by using the grouping representation and the accompanying genetic operators [53] would be of higher quality but the purpose of studying the GCP in this work is to study the qualities and behaviours of the RRGAs.

Many of the observations made when analyzing the BPP can be made when analyzing the GCP. Overall the direct representation appears to be the better performing by a very small margin. The difference between the results from the two representations on the GCP appears to be smaller than the difference between the results of the representations on the BPP. Paired t-tests with 95% confidence were done to compare both representations for each set of system parameters. In many of the cases there was no statistical difference between these results.

In almost every plot seen in Section B.2 one can see how the restarts affect the quality of the results. As the likelihood of the number of restarts occurring increases so does the quality of the results obtained. In many of these cases these differences are statistically significant and there is minimal to no overlap between confidence intervals. This trend appears to be amplified when observing the results of the indirect transposition representation. Similar to the BPP there are cases where too many restarts does not benefit the quality of results. Even though the transposition representation does not perform as well as the direct representation the actual difference between these results is very small.

Although it appears that as the number of restarts increases the results become better an interesting observation that can be made is that the number of restarts affects the standard deviation. The effect of restarts on the standard deviation is very chaotic meaning that the actual results are likely to be different. This bodes well for the genetic diversity of the populations however the standard deviations are very small.

Unlike the BPP the use of 2-Opt as the starting seed did not appear to put the

Data Set	Chromatic Opt.	Best Number	Avg. Direct	Best Trans.	Avg. Trans.
DSJC125.1	5	6	6	6	6
DSJC125.5	17	19	20.1	19	20.1
DSJC125.9	44	44	45.6	44	45.6
DSJC250.1	8*	10	10.8	10	10.8
DSJC250.5	28*	35	36.2	35	36.2
DSJC250.9	72	80	82.1	80	82.1
DSJC500.1	12*	17	17	17	17
DSJC500.5	47*	64	65.3	64	65.3
DSJC1000.1	20*	28	28.8	28	28.8
flat300_28_0	28	39	40.6	39	40.6
queen10_10	11	12	12.4	12	12.4
queen11_11	11	13	13.9	13	13.9
queen12_12	12	14	15	14	15
queen13_13	13	16	16.4	16	16.4
queen14_14	14	17	17.9	17	17.9
queen15_15	15	18	19	18	19
r250.5	65	67	68.2	67	68.2

Table 6.4: Summary of Best and Best Average Results After Post Optimization for GCP instances. * Upper Bound.

algorithm in a local optimum it could not escape. This could imply that the GCP search space is challenging or possibly that the fitness landscape is non-chaotic. There are some instances where the same trend was observed on the BPP instances with 2-Opt getting stuck without restarts, but in general this is not the case for the GCP.

The results seen on the GCP demonstrate that the Recentering-Restarting Genetic Algorithm variants surpass the quality of results obtainable by a vanilla Genetic Algorithm. These results also demonstrate how well an increased number of restarts positively affect the performance of the indirect transposition representation.

6.4 Travelling Salesman Problem: Large Problem Instances

The tabulated results for all experiments conducted on the travelling salesman problem Large Problem Instances can be seen in Section A.4 and Tables 6.5 and 6.6 provides a summary of the best results. There are two distinct groups of tables in this section. The first group of tables show that results obtained with no form of post optimization and can be found in Section A.4.1. The second group of tables can be found in Section B.3.2 and are of results obtained with the use of 2-Opt as post optimization. All tables are presented such that every combination of system parameters used are displayed. The distance of the best path (smallest distance) and the average result over the 30 runs conducted for each system parameter are shown

in these tables. The tables are broken down into groups of columns which display the number of no learning generations allowed before a restart: ∞ (meaning basic GA), 10000, 1000, and 100. The description of each table includes the suspected optimal solution for the respective problem instance. Unlike the experiments conducted on the BPP and GCP the mutation rate was made constant and a variable number of generations was used in an attempt to explore search spaces with a different approach.

Plots summarizing the best results can be seen in Section B.3. There are three separate groups of plots in this section. The first group of plots compare the results when no post optimization was performed and can be found in Section B.3.1. The second group of plots are found in Section B.3.2 and are a comparison of the results after post optimization was done. These two first groups of plots compare the results obtained from the two different representations and the number of restarts used. These plots are of the mean values along with vertical bars that represent the 95% confidence interval. Section B.3.3 contains the third group of plots which simply show a comparison of all algorithms before and after any post optimization. Unlike the first two sets of plots which have the exact value of the path obtained, the third set has the percentage above the suspected optimal. These plots can only be used to compare the general trends of the algorithms and not specific results as their ranges are too large.

The LKH algorithm was used as one of the seeds for these experiments to demonstrate how good the LKH algorithm is at these ordered gene problems, but experiments using this as the seed were halted. Unlike the results shown in DIMACS TSP Implementation Challenge results page, the LKH algorithm does in fact achieve the optimal on all problem instances selected. This is unusual as part of the reason these instances were selected was because the LKH was not supposed to be able to find the optimal. As one would expect, when these values were used as seeds no learning occurred.

Unlike the BPP and GCP results, the effect the initial seed has on the results for these large TSP instances is substantial. 2-Opt has an extremely large benefit on every result seen in the tables in Section A.4.1 which show the results with no post optimization. Surprisingly this trend is reversed when 2-Opt was used as post optimization, i.e. using a random initial seed produces better final results when 2-Opt is used as a post optimization technique.

When observing the tables and plots (specifically the plots comparing the effects of post optimization in Section B.3.3) it is clear that post optimization substantially improves results.

When considering the best performing results obtained one can observe that they are close to their respective optimal and comparable to results obtained by many other competitive ordered gene algorithms. This is true when considering both the results with no post optimization and those with post optimization.

It is difficult to draw any conclusions about how the number of generations affect the results. Oddly it appears that the number of generations actually hurts the results when restarts are involved.

Unlike the BPP and GCP results the standard deviation is not presented although they were analyzed. The reason for their omission is because in most cases the value of the standard deviation was 0. In most of the few cases where this value was not 0 the standard deviations were relatively small, however there were outlying cases where this is not the case. This also led to small confidence intervals.

When no post optimization was done it is clear that the effect the restarts have on the overall results is minimal. Unlike the BPP and GCP results the transposition representation results tend to outperform the direct representation. This is reasonable as the transposition representation should perform well in these large and chaotic search spaces since it is built upon local search operations. Additionally it is difficult to say which version of the RRGAs actually performed best as the results are so similar with the majority of cases having no statistically significant differences (although in multiple cases the RRGAs with the transposition representation and the RRGAs+RS with the transposition representation perform better than others). Note that this trend is not consistently seen on all instances. In a number of cases it can be observed that the RRGAs with the performance of the transposition representation deteriorating as the likelihood for more restarts increases.

The plots seen in Section B.3.2 show that the results that were post optimized are substantially more consistent than those that had no post optimization. An interesting thing to note is how large the confidence interval for the RRGAs with the transposition representation is when 100 generations of no learning were allowed before a restart. This trend can also be seen in some cases where 1000 generations of no learning were allowed before a restart. Similar to the no post optimization results there is little consistency as to which variation of the algorithm works best but when one does perform better there is a statistically significant difference.

The fact that no one variation of the algorithm dominates on all large TSP instances, let alone one instance, corresponds to the discussion in Section 6.1 regarding the small TSP instances which suggests that no one algorithm can dominate on all instances within a problem domain.

Data Set	Suspected	Best Direct	Avg. Direct	Best Direct	Avg. Direct	Best Direct	Avg. Direct
Name	Opt.	RRGA	RRGA	RRGA+RS	RRGA+RS	RRGA+IM	RRGA+IM
d1291	50801	57709	57709	57709	57709	57709	57709
d1655	62128	69235	70594	70594	70594	69559	70594
dsj1000	18659688	20384354	20883123.2	20309097	20866084.4	20335251	20890961.8
fl1400	20127	20939	21672	20850	21672	21044	21672
fl1577	22249	23964	23964	23964	23964	23964	23964
nrv1379	56638	62228	62317	62083	62317	62170	62317
pcb1173	56892	64116	64116	64116	64116	64116	64116
pr1002	259045	284844	284844	284844	284844	284844	284844
rl1304	252948	277989	287163	282632	287163	277583	287163
rl1323	270199	295860	307723.4	299083	307805	296089	307805
rl1889	316536	349719	361240.3	349152	361827.5	348189	361092.2
u1060	224094	248394	248394	248394	248394	248394	248394
u1432	152970	169575	169575	169575	169575	169575	169575
u1817	57201	65378	65378	65378	65378	65378	65378
vm1084	239297	257655	269165	260765	268455	262160	269407.3
vm1748	336556	367356	378619.5	370201	379006.9	368218	377854.4

Table 6.5: Summary of Best and Best Average Results After Post Optimization for TSP Instances Using Direct Representation. Bold entries are best performing. Bold entries carry into Table 6.6.

Data Set	Suspected	Best Trans.	Avg. Trans.	Best Trans.	Avg. Trans.	Best Trans.	Avg. Trans.
Name	Opt.	RRGA	RRGA	RRGA+RS	RRGA+RS	RRGA+IM	RRGA+IM
d1291	50801	55005	57020.2	55683	57164	55163	57226.2
d1655	62128	68522	69464.8	69068	70390.9	68938	70481.8
dsj1000	18659688	20270323	20575104.8	20390987	20856183.6	20366489	20868276.8
fl1400	20127	20864	21524.7	20831	21672	20885	21665.2
fl1577	22249	23254	23568.2	23964	23964	23753	23940.8
nrv1379	56638	61587	62155.6	61905	62317	62011	62317
pcb1173	56892	62264	63631.4	62096	63496.8	62428	63583.4
pr1002	259045	280255	284600.7	280826	284844	280271	284844
rl1304	252948	273670	280076.9	276012	287163	274838	287066.2
rl1323	270199	294922	301065.3	297374	307805	294536	306510.7
rl1889	316536	349806	355775.6	348947	360834	348719	360070.2
u1060	224094	242114	246192	245609	247701.5	244570	247921
u1432	152970	167730	169773.4	168591	169575	167974	169575
u1817	57201	63819	64617.8	65378	65378	64758	65350.7
vm1084	239297	259815	266687.2	260550	268797.4	258388	267986.6
vm1748	336556	366519	372609.5	369669	378293.1	370116	379045.5

Table 6.6: Summary of Best and Best Average Results After Post Optimization for TSP Instances Using Indirect Representation. Bold entries are best performing. Bold entries carry from Table 6.5.

The effectiveness of the seeds and post optimization seen on these results suggests that it is greatly beneficial to combine heuristics and metaheuristics. This is not surprising as memetic algorithms have been shown to perform well on many problems. The memetic variation of the algorithm studied on the BPP did not perform well but these loosely memetic, or high level combination of heuristics and metaheuristics do perform very well.

6.5 DNA Error Correction

Results for all distinct experiments can be found in Section A.5 with the results for the first, second, and third code found in Sections A.5.1, A.5.2, and A.5.3 respectively. The results are broken down based on the system parameters and are divided into

columns based on the number of restarts used. Unlike the other experiments the data was split up into a training and testing data set as this is more of a machine learning problem. These tables also show the results for the distance 1, 2 and 3 error patterns.

Section B.4 shows plots that summarize the results of the first distinct set of experiments (the 4, 6, 12, and 18 state side effect machines). No plots are included for the second set of experiments as they are less significant. These results allow one to compare the relative performance of each set of experiments performed based on the number of restarts. These plots are of the mean values with vertical bars that represent the 95% confidence interval. The accuracy values in these plots are the sum of results over all three distances.

For each distance $n * M$ error patterns were tested for each distance (where n is the length of the codeword and M is the number of codewords within the code). This means that for a $(12, 55, 7)_4$ code a perfect classification would be $12 * 55 = 660$ corrected codewords for each distance and for a $(12, 60, 7)_4$ code a perfect classification would be $12 * 60 = 720$ corrected codewords for each distance.

6.5.1 First Set of Experiments

Over all experiments there is a high overlap between the training and verification sets' 95% confidence interval. This demonstrates that the SEMs are learning the attributes and qualities that make up the mapping from error pattern to codeword through classification vectors and not simply memorizing the training set.

When it comes to the experimental settings that produced the best results for each of the three experiment sets on each of the codes, there were some small trends in system settings but none were significant enough to show any strong relationships with high-quality results.

Direct SCM Analysis

Similar to a trend that was observed in [35], SCM using SEMs with a higher number of states consistently outperform SEMs with a smaller number of states when the direct representation was used. The biggest change observed can be seen between SEMs of 6 states and SEMs of 12 states. This suggests that the representation of the space is only fully explored when a large SEM space is allowed. SEMs with a smaller number of states would require a high mutation rate to fully explore the SEM space, resulting in poor performance due to the power of selection pressure being removed.

Mann-Whitney U tests were performed to determine if there was any statistically

significant trend between the results obtained for the three experiment sets. The results between the basic GA and the Recentering-Restarting GA were very inconsistent with some being statistically better, some statistically worse, and many having no statistical difference at all. There were consistencies observed with statistical significance where the direct representation outperformed the indirect transposition representation for the direct SCM analysis.

Fuzzy SCM Analysis

Similarly to the direct SCM analysis many of the same trends can be observed that were noted in previous work. The fuzzy classification with a tolerance of 3 was able to produce consistently better results over the direct SCM analysis. As expected the standard deviation of the results was much greater than the direct SCM analysis.

Several interesting new trends were observed in this work with respect to the results obtained with the transposition representation on the fuzzy analysis.

The first trend that can be observed is the poor performance of the transposition representation for SEMs with a small number of states when doing a direct SCM analysis. The performance does improve as the number of states increases but not by a large enough amount to compete with the results obtained using the direct representation.

The next trend that can be observed is that the results for the fuzzy analysis improve as the number of states in the SEMs decreases, with the best fuzzy classifying SEMs achieving excellent results. On the $(12, 55, 7)_4$ code with 6 states the best machine was able to correct 99.697% of the errors of distance 1 in the training set and on the two $(12, 60, 7)_4$ codes there were multiple instances where 100% of the errors of distance 1 were able to be corrected in the training set.

It was this trend that led to the experiments of the Recentering-Restarting GA with the transposition representation being performed on SEMs with only 4 states. This resulted in more instances of 100% of the errors of distance 1 in the training set being corrected, as well as some instances of 100% of the errors of distance 2 being corrected in the training set and 100% of the distance 1 errors in the verification set being corrected. The best performing SEM was able to correct 100% of distance 1 and 2 errors and 98.47% of the distance 3 errors. This is an overall performance of 99.49% accuracy over all three distances for the training set. For that same SEM the overall performance was 99.54% accuracy over all three distances for the verification set which is actually a slightly higher value than the results obtained from the training set. These values are an improvement over the results obtained in the previous work

which obtained a best accuracy of 93.86% [35].

These results suggest that the transposition representation has a strong ability to generalize errors. This effect seems to be amplified when using the indirect representation in combination with SEMs with a low number of states. A reason for this phenomenon could be that the transposition representation does not permit too thorough an exploration of the problem space, thereby preventing the SEM from becoming overzealous and greedily classifying to the nearest classification vector. This representation appears to let the machine group like codewords together, with a lower number of states improving upon this even further.

6.5.2 Second Set of Experiments

Similar to the first experimental set it is very difficult to distinguish any trends when it comes to the experimental settings that produced the best results between any of the codes and the number of restarts. There are some small isolated trends that can be observed between the tables (such as 15 restarts appeared to perform the best on the $(12, 55, 7)_4$ code with 2 states) but overall nothing significant.

The few major trends that were observed are discussed below.

Direct SCM Analysis

The results obtained validate results found in the first experimental set which showed that as the number of states increases the performance of the direct analysis on the SEMs increases. In this work the machines that had 4 states performed better than those which had only 3 states and much better than those which had 2. The biggest difference in the results can be observed between SEMs that have 2 and SEMs that have 3 states. This helps to confirm previous conclusions that suggest that the search space is only fully explored with SEMs with a higher number of states.

Note that the results obtained for the direct analysis in this second set is much worse than the results obtained in the first set as far fewer states were studied in this work.

Mann-Whitney U tests and paired t-tests were performed on the results obtained with the $(12, 55, 7)_4$ code which showed no significant trends with respect to any statistically significant difference in the results between the experiments and their settings. No further statistical tests were performed on any of the other codes as the same chaotic results are observed in all results.

Fuzzy SCM Analysis

The fuzzy analysis with a tolerance of 2 was able to produce much better results than the same experiment with the direct analysis. A tolerance of 2 results in a much more difficult classification.

Similar to the first set of experiments, it is observed that the results for the fuzzy analysis improved as the number of states decreases which is the opposite of what was observed with the direct analysis. Many of the mean results for the machines with 2 states for distance 1 errors were able to correct roughly 90% of the error codes. The mean results for SEMs with 3 states were able to correct roughly 80% of the error codes. Lastly the mean results for SEMs with 4 states were able to correct roughly 74% of the error codes.

This suggests that these small SEMs evolved with the RRGAs using the indirect transposition representation have a strong ability to generalize the codewords. It appears that the high number of restarts with this representation does not allow the SEM to become too specialized at correcting error codes greedily.

In the first set of experiments the tolerance for the fuzzy analysis was set to 3 and in this set the tolerance was set to 2. The results obtained were also worse in comparison to previous works when it came to the fuzzy analysis due to the tolerance being lowered. This phenomenon was expected as fewer classification vectors would be considered for the fuzzy analysis. A possible explanation for the success of the fuzzy analysis on the SEMs with a small number of states could be due to the Euclidean distance between the classification vectors decreasing as the number of states decreases.

6.6 DNA Fragment Assembly

A collection of the tabulated results for all experiments conducted for the DNA fragment assembly problem can be seen in Section A.6. Information included in these plots include the system parameters along with the best value achieved, average result over 30 runs, and standard deviation. These tables are separated into subsections based on the set of experiments to which they belong. For each of the results there are two sets of tables, those that contain results with no post optimization and those that are of results that have been post optimized. In multiple cases there are a set of these tables that do and do not have a forced recentre after the first restart. These tables will be discussed in their respective sections. The description of each table

includes the suspected optimal solution for the respective problem instance.

Summary tables are included in this chapter which give a high level overview of the results for their particular set of experiments. The information contained in these tables are dependent on whether or not they belong to the first, second, third, or fourth set of experiments.

Plots summarizing the best results are found in Section B.5. Similar to the tables in Section A.6 these plots are of results before and after post optimization and in some cases with and without a forced recentre after the first restart. Plots are also included comparing the results between distinct sets of experiments. Refer to specific sections for details on which plots are included for each set of experiments conducted.

Results obtained by the LKH [71] on the less popular f -series benchmarks are included in Table 6.7. Unlike the original popular 16 benchmarks where the result are compared to the best results obtained by state of the art algorithms for the DNA fragment assembly problem, results for these f -series instances are compared to the LKH results (suspected optimal).

The LKH [71] was used as a seed for experiments but it was quickly observed that no improvements were being made on any problem instance when the algorithm variations were run. This corresponds to the observations made in [101] which suggests that the Lin-Kernighan algorithm in fact produces the optimal solution for the relatively small problem instances. Because of this phenomenon the algorithms using the LKH as a seed were not further explored as it would not demonstrate any benefit or significance. For the large problem instance the LKH will be used as the initial seed and will be represented in this work. This is due to the much larger search space of the real world instances and the ability of these local search algorithms to find high quality solutions.

A memetic variation of each algorithm was studied that used 2-opt on the best member of the population before it was compared to the centre but preliminary results demonstrated that this method significantly slowed down evolution with no real benefit to the quality of solutions.

6.6.1 First Set of Results

This first set of experiments used the static restart approach with the fixed alteration of transpositions on a recentre.

All results for the first set of experiments are available in Section A.6.1. Section A.6.1 contains the results that have not had any post optimization and Section A.6.1

Name	LKH Results [71]
f25 305	596
f25 400	777
f25 500	921
f50 315	1581
f50 412	1573
f50 498	1570
f100 307	2793
f100 415	2860
f100 512	2732
f508 354	18112
f635 350	22498
f737 355	25218
f1343 354	49042
f1577 354	57373
COL	8345841
MW2	663208

Table 6.7: Results obtained by LKH for the f -series data sets and the Large Problem Instances COL and MW2

contain the results that have had 2-Opt applied as a post optimization technique. There are multiple tables for each problem instance where each table corresponds to a particular algorithm variation. All tables are presented such that every combination of system parameters used are available. The tables are broken down into groups of columns which display each set of number of restarts used: 0 (basic GA), 5, 10, and 20.

Plots summarizing the best results for the first set of results can be found in Section B.5.1, specifically Section B.5.1 contains the plots before any post optimization was performed, Section B.5.1 contains results after post optimization, and Section B.5.1 contains results comparing the results of pre and post optimization. Sections B.5.1 and B.5.1 are of the mean values along with vertical bars that represent the 95% confidence interval. All plots give a visualization of results and allows for trends to easily be observed and each plot shows the results of all algorithm variations on a given problem instance.

Multiple sets of experiments were performed on the first set of experiments: RRGGA, RRGGA+IM, and RRGGA+RS. All of these combinations of GA variations will also be used with the two different types of representations except for the RRGGA+IM which will not be used with the transposition representation due to complications

arising from the lengths of the transpositions and the separate subpopulations.

As previously mentioned, two versions of the basic RRGGA+IM were implemented, one where 500 generations were allowed between migrations, and the other, where 5000 generations were allowed between migrations.

No Post Optimization

Table 6.8 summarizes the best results obtained by each algorithm before post optimization on all problem instances. **Bold** entries represent the best performing algorithm's result on each data set and ***Italicized Bold*** entries are results that outperformed or tied all algorithms presented in Table 5.10. Comparisons for the f -series data set are made to Table 6.7. Note that there are multiple instances where more than one algorithm's results on a given data set outperformed all other algorithms presented in Table 5.10. These results show that some variation of the algorithm studied beat or tied the best result obtained by one of the state of the art algorithms used for the DNA fragment assembly problem on 6/16 of the original popular benchmarks. In addition, results in Table 6.8 show that some variation of the algorithm studied tied the suspected optimal on 3/14 of the f -series instances. Although only 6/16 beat all other algorithms, these results are extremely competitive close to one another.

A major trend that can be observed in Table 6.9 is that the RRGGA+IM variation using the direct representation tends to dominate. Another observation to be made is the strong performance of the transposition representation on the large problem instances from the f -series. This does not correspond to the results obtained in almost all other problem spaces studied but seems reasonable due to the nature of the representation being built upon local search operators. All things considered, all variations of the algorithm are able to produce strong candidates for all problem instances.

When analyzing the tables seen in Section A.6.1 there is no consistency with respect to the effect of the system parameters on the end results. The one major observation that can be made about the parameters used for these experiments is the effect of the initial seed. Not only did the experiments seeded with 2-Opt perform much better than those with a random starting location, but the standard deviation of the results is much lower for those experiments seeded with 2-Opt. This trend is seen in all tables and is by a very large margin (sometimes more than 100 times smaller). Note the poor values of the average results in these tables.

Each plot summarizes the average result of all algorithms on a specific problem

Data Set Name	Dir. RRGa		Dir. RRGa+RS		Dir. RRGa+IM		Trans RRGa		Trans RRGa+RS	
	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg
acin1	47344	15761.43	47374	15760.17	<i>47413</i>	15793.07	47341	15773.1	47361	15775.3
acin2	150842	50184.07	150762	50125.07	<i>150982</i>	50316.33	150951	50316.47	150951	50316.4
acin3	166011	55245.13	165951	55224.07	<i>166326</i>	55408.1	166172	55390.67	166172	55390.67
acin5	162131	53918	161980	53932.4	<i>162332</i>	54109.73	162329	54109.67	162331	54109.73
acin7	179094	59635.6	179084	59638.5	<i>179375</i>	59791.67	179375	59791.2	179375	59791.27
acin9	341874	113831.47	341927	113846.23	<i>342208</i>	114068.13	342208	114068.8	342208	114068.87
bx842596_4	225238	74963.2	225238	74646.2	225266	75083.67	225034	74908.83	224998	74848.2
bx842596_7	437834	145842.37	437820	145857.03	437857	145914.4	437741	145874.8	437697	145856.9
j02459_7	115364	38403.57	115490	38407.1	115425	38440.9	115186	38317.67	115182	38321
m15421_5	38435	12802.87	38435	12806.13	38439	12812.67	38434	12803.77	38434	12804.17
m15421_6	47403	15801	47403	15797.9	47403	15801	47403	15781.87	47403	15771.4
m15421_7	54750	18239.8	54747	18220.53	54766	18250.23	54751	18248.23	54751	18247.93
x60189_4	11394	3718.03	11411	3723.03	11410	3755.33	11305	3710.17	11141	3704
x60189_5	14038	4619.6	14005	4636.17	<i>14077</i>	4640.13	13883	4616.57	13878	4621.2
x60189_6	18017	6005.67	18017	6005.67	18017	6005.67	18017	6005.67	18017	6005.67
x60189_7	21057	6968.43	21057	6953.3	21059	7010	20829	6943	20829	6943
f25_305	<i>596</i>	197.97	<i>596</i>	197.8	<i>596</i>	198.5	595	198.27	595	198.23
f25_400	<i>777</i>	257.87	<i>777</i>	258.17	<i>777</i>	258.53	772	256.43	772	256.43
f25_500	<i>921</i>	305.4	<i>921</i>	304.9	<i>921</i>	306.2	918	305.37	918	305.4
f50_315	1569	518.07	1565	517.83	1567	520.97	1565	520.27	1565	520.07
f50_412	1558	513.73	1558	514.13	1561	517.83	1555	512.7	1555	512.47
f50_498	1548	512.17	1549	513.87	1551	516.2	1549	516.03	1549	516.03
f100_307	2762	905.57	2762	904.9	2762	920.67	2762	920.67	2762	920.67
f100_415	2796	918.4	2804	917.97	2804	934.67	2804	934.67	2804	934.67
f100_512	2679	883.6	2684	884.8	2700	899.27	2696	898.37	2696	898.4
f508_354	17754	5886.47	17743	5887.33	17766	5922	17766	5922	17766	5922
f635_350	21993	7307.83	22012	7298.63	22021	7340.33	22021	7340.33	22021	7340.33
f737_355	24392	8094.57	24379	8097.1	24431	8143.13	24431	8143.07	24431	8143.13
f1343_354	47335	15738.87	47315	15721.17	47363	15781.8	47363	15782.47	47363	15783.33
f1577_354	55555	18488.7	55533	18474.3	55582	18527.27	55582	18526.7	55582	18526.33
COL	8345841	-	8345841	-	8345841	-	8345841	-	8345841	-

Table 6.8: A collection of the best results and best average best results obtained by each algorithm on all data sets with no post optimization

instance. An interesting trend that can be seen in most plots in Section B.5.1 is that the addition of restarts benefits the results. There are some cases where the addition of restarts actually hurts the direct RRGa and direct RRGa+RS versions of the algorithm, i.e. as the number of restarts increases the quality of the results decreases. Another observable trend is that if the results are improving the 95% confidence interval decreases but if the results are not improving the 95% confidence interval increases. This suggests among other things, that when the results are good the algorithms are probably converging onto a local optima which could be a very negative thing.

For the COL data set the LKH was used for the pre-optimization due to the large size of the problem and because it was assumed that 2-opt would not achieve a strong enough starting location (which is the case). Observe that there were no improvements made by the metaheuristic over the results of Lin-Kernighan. This further suggests that the LKH is able to find the optimal solution for this instance which was an observation made in [101].

Post Optimization

As experiments were being performed it was observed that obtained results were out-performing all of the best metaheuristics on 6/16 of the problem instances . This

led to applying the post optimization technique of 2-Opt to the results to further improve them for the small problem instances (as seen in previous sections studying other problem spaces). Due to the size and run times required no post-optimization was run on the large problem instance (although one would expect no real improvements as it is expected that LKH may already be obtaining the optimal).

Table 6.9 contains the best and the best average results for each combination of GA techniques on each of the problem instances studied in this work. **Bold** entries represent the best performing algorithm's result on each data set and ***Bold*** entries are results that outperformed or tied all algorithms presented in Table 5.10. Comparisons for the *f*-series data set are made to Table 6.7. Note that there are multiple instances where more than one algorithm's results on a given data set outperformed all other algorithms presented in Table 5.10. Table 5.10 is a brief summary and does not contain a complete analysis.

The first observation to be made is that at least one of the algorithm variations were able to outperform all of the other best metaheuristics previously used on 10/16 of the previously studied benchmark data sets and tied the suspected optimal on 5/14 of the *f*-series instances. In addition, the results are very close to the best values when these algorithms did not beat the best performing. In multiple cases more than one of the studied algorithms were able to produce higher quality results. There were also multiple cases where an algorithm variation studied was able to tie the results obtained by the LKH which is suspected to be optimal [101].

When considering the system parameters used for each algorithm variation it is observed that there is little consistency with respect to how they actually affected the results of the algorithms. When trying to determine which of the algorithms studied performed best there is a little more consistency, however the results are still unpredictable making it very difficult to conclude which performs best. In nearly all cases the addition of recentering and restarting to the GA variations made a considerable positive impact on the results which demonstrates how effective the RRGA is.

It can also be observed that for the majority of the data sets all algorithm variations were able to obtain high quality results very close to one another. Paired t-tests with 95% confidence were performed for each pair of algorithms on each data set to determine if there was any statistical difference between these results. Unsurprisingly the results of these tests were inconsistent and showed some statistically differences.

It is interesting to note that the data sets with a relatively small number of fragments (such as the x60189 and the *f*-series instances) the simple RRGA with the

direct representation appears to have some consistency in that it produces the best results. In addition one can also see trends with the RRGGA+IM producing good results on the larger instances yet having consistently good average results on the smaller instances. The transposition representation variations of the algorithms were able to achieve the best *average* results on almost all of the data sets with a relatively large number of fragments.

When considering the tables in Section A.6.1, many similar trends that were observed when no post optimization was performed can be made. In the majority of cases using 2-Opt as a starting seed resulted in better solutions but the difference between these results and those that had a random starting seed is minimal. Similarly, the standard deviations are smaller for those that had the 2-Opt starting seed but once again this difference is much smaller than the differences observed when no post optimization was performed.

An analysis of the plots in Section B.5.1 is fairly difficult as the results are chaotic, however some important observations can be made. In general the addition of some amount of restarts does improve the results of the best performing algorithms. Unlike the plots in Section B.5.1 of the results with no post optimization, the transposition representation variations of these algorithms perform worse than those that used the direct representation. Once again, as the results improve the 95% confidence intervals decrease but if the results do not improve then the 95% confidence interval appears to increase.

When comparing the results of those that used no post optimization to those that used post optimization (Refer to Section B.5.1) it is very clear that 2-Opt as post optimization is extremely beneficial. This comes as no surprise as it was similarly effective on the large TSP instances.

In most cases, such as real world problems, it would be ideal to use another algorithm such as the LKH which has been shown to produce very high quality results. This option was not used as it would defeat the purpose of post optimization on these instances since the LKH is suspected to find the optimal on these benchmarks [101]. If one were using these algorithms on instances where this was not the case, such as much larger problem instances, it would be ideal to use high quality heuristics. If metaheuristics are able to obtain high quality solutions, heuristics used for post-optimization would take minimal time compared to the time required if they were run from some random permutation. This becomes particularly useful when considering the exponential increase in runtime required for larger problem instances.

Data Set Name	Dir. RRGa		Dir. RRGa+RS		Dir. RRGa+IM		Trans RRGa		Trans RRGa+RS	
	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg
acin1	47436	47284.77	47450	47287.7	47437	47320.83	47400	47329.83	47408	47328.3
acin2	151285	151088.67	151253	151086.07	151243	151078.47	151194	151101.43	151223	151099.5
acin3	167035	166455.4	166882	166466.9	167214	166582.33	167202	166694.67	167144	166779.17
acin5	163061	162730.13	163066	162762.03	163027	162720.77	163130	162771.03	163038	162766.37
acin7	179835	179578.17	179932	179543.03	179886	179540.8	179888	179541.43	179820	179536.23
acin9	342936	342522.9	342949	342474.73	342965	342486.07	342995	342548.17	342860	342531.07
bx842596_4	227151	225900	227090	226011.7	227171	225101.33	226639	225343.93	227068	225410.87
bx842596_7	441893	438941.1	441867	438697.57	442100	438276.1	441686	437711.73	440757	437661.3
j02459_7	116198	115489.17	116110	115579.87	116336	114923.13	116029	115315.6	115943	115292.9
m15421_5	38675	38404.17	38668	38397.4	38667	38331.47	38658	38410.43	38655	38410.23
m15421_6	48034	47634.97	48048	47642.7	48052	47550.93	47916	47554.33	47875	47530.6
m15421_7	55094	54693.57	55020	54698.2	54986	54507.53	54897	54743.37	54888	54743.37
x60189_4	11478	11262.5	11478	11236.7	11478	11313.37	11478	11195.53	11478	11228.5
x60189_5	14161	13963.27	14161	13966.7	14161	13959.83	14133	13950.83	14127	13968.3
x60189_6	18301	18016.93	18301	18010.97	18184	17958.5	18184	18017	18184	18017
x60189_7	21228	20987.3	21257	20964.43	21218	20997.8	21218	20904.2	21210	20928.67
f25_305	596	592.7	596	593.33	596	594.87	596	594.23	596	594.37
f25_400	777	773.27	777	773.3	777	775.1	777	769.27	777	769.8
f25_500	921	915.73	921	916.07	921	918.73	921	916.23	921	916
f50_315	1581	1561.87	1579	1562.2	1580	1560.43	1576	1562.3	1579	1563.7
f50_412	1571	1557.4	1572	1556.07	1569	1559.53	1568	1552.77	1570	1549.37
f50_498	1568	1554.63	1568	1554.27	1570	1554.5	1566	1551.3	1568	1551.67
f100_307	2784	2758.4	2779	2760.37	2781	2763.43	2778	2763.73	2779	2764.37
f100_415	2848	2820.27	2848	2818.87	2842	2820.93	2844	2813.8	2842	2812.63
f100_512	2717	2694.77	2718	2696.07	2713	2696.93	2713	2696.8	2711	2695.57
f508_354	17887	17779.37	17888	17778.63	17872	17795.13	17853	17778.43	17868	17780.43
f635_350	22155	22048.43	22164	22046.47	22145	22065.67	22142	22048.33	22101	22047.67
f737_355	24744	24555.7	24703	24557.63	24706	24564.33	24704	24536.2	24725	24531.7
f1343_354	47928	47632.03	47922	47632.8	47877	47641.43	47841	47638.13	47879	47636.6
f1577_354	55998	55671	55958	55665.73	55942	55684.77	55894	55704.33	55943	55703.77

Table 6.9: A collection of the best results and best average best results obtained by each algorithm on all data sets with post optimization

6.6.2 Second Set of Results

The second set of experiments used a different paradigm than the first. Instead of using the fixed number of restarts this set of experiments implemented the dynamic approach which allowed some number of generations of no learning to occur before a restart. This second set of experiments also applied the factor approach (2x the number of fragments) to the initial number of transpositions with the percentage approach to alter the number of transpositions on a recentre.

The second set of experiments conducted used a variation of the algorithms which forced a recentre to occur on the first restart. For more details on these results refer to Section 6.6.2.

Results for the second set of experiments can be found in Section A.6.1. Section A.6.2 contains the results that have not had any post optimization and Section A.6.2 contains the results that have had 2-Opt applied as a post optimization technique. Section A.6.2 contains results when there was a forced recentre on the first restart and Section A.6.2 contains post optimized results when there was a forced recentre on the first restart. There are multiple tables for each problem instance where each table corresponds to a particular algorithm variation. Every table is presented such that all combinations of system parameters used are available. The tables are broken down into groups of columns which display each set of number of restarts used: 0

(basic GA), 5, 10, and 20.

Plots summarizing the best results for the second set of results can be found in Section B.5.2, specifically Section B.5.2 contains the plots before any post optimization was performed, Section B.5.2 contains results after post optimization, Section B.5.2 contains plots before any post optimization with a forced initial recentre, and Section B.5.2 contains plots with post optimization and a forced recentre on the first restart. Section B.5.2 contains plots comparing the effect of no forced recentre and a forced recenter. All plots except for the forced restart comparison plots are of the mean values along with vertical bars that represent the 95% confidence interval. All plots give a visualization of results, allowing for trends to easily be observed and each plot shows the results of all algorithm variations on a given problem instance.

Multiple sets of experiments were performed on the second set of experiments: RRGA, RRGA+IM, and RRGA+RS. All of these combinations of GA variations will also be used with the two different types of representations. Unlike the first set of experiments the transposition representation variation of the RRGA using the Island Model was implemented.

Unlike the first set of experiments, only 1000 generations were allowed before migration in the RRGA+IM variations.

No analysis is done on the results obtained that have no post optimization as these results are less significant and post optimization consistently performs much better.

The best average result for each algorithm variation on each problem instance was not included in the summary tables in this section. For a complete set of the average results on all instances on all sets of system parameters refer to Section A.6.2.

No Forced Recentre

Table 6.10 presents a summary of the best results obtained by each algorithm after post optimization. **Bold** entries represent the best performing algorithm's result on each data set and ***Italicized Bold*** entries are results that outperformed or tied all algorithms presented in Table 5.10. Comparisons for the f -series data set are made to Table 6.7. There are multiple instances where for a given data set, more than one algorithm outperformed all other algorithms presented in Table 5.10. These results show that at least one variation of the studied algorithms was able to outperform the current best performing DNA fragment assembly problem algorithm on 10/16 problem instances. In addition, this batch was able to tie the suspected optimal on 4/14 of the f -series problem instances. Similarly to the first set of experiments all results were very close to one another which suggests that all algorithm variations

studied are effective.

When studying Table 6.10 one can see that no one algorithm dominates on all problem instances, however it is interesting to note how well the transposition representation variations of the algorithms perform on the original 16 benchmark instances compared to the direct representation. The results for the f -series instances are inconsistent with respect to the best performing algorithm but all results are within 1% of one another. In almost all cases the algorithms are able to produce results less than 1% away from the suspected optimal.

Once again, when analyzing tables containing results with post optimization and no forced restart (see Section A.6.2) it is clear that there is little to no consistency with respect to how the system parameters affect the results. Since post optimization was used with these experiments the initial seed had a minimal affect on the final results. Similar to results seen in previous experiments, it appears that as the likelihood of more restarts increased, the standard deviation decreased. Overall the results are very close to one another across the system parameters and the algorithm variations.

Each plot summarizes the average result of all algorithms on a specific problem instance. In general, many of the previous observations made when analyzing the plots can be made when studying the plots in Section B.5.2. It appears that as the likelihood of restarts increases, the confidence interval decreases. A noteworthy observation is that the addition of restarts would help some versions of the algorithm on average (normally the basic with RRGa with both representations) while it would hurt the other versions of the algorithms on average (these plots contain the mean values, not the maximum). It also appears that the confidence intervals on this second set of experiments have a much larger range. In almost all cases the best mean value was obtained by a version of the algorithms that used some number of restarts. All variations of the algorithm performed well with no one algorithm always outperforming the others.

Large Problem Instances With Dynamic Approach

Two large, real world problem instances were studied for the second set of experiments, namely the COL data set and the MW2 data set. Unlike the first set of experiments which used LKH as the initial seed, there was no initial seed for this second set of experiments. This was due to the fact that no learning occurred in the first set of experiments (as the LKH was suspected to already be optimal) which does not help demonstrate the strengths or weaknesses of a given algorithm.

Tables of results for each data set and algorithm combination can be found in

Section A.6.2 and their plots can be seen in Section B.5.2. Although the obtained results are not close to the suspected optimal, one can see how well some variations of the algorithms work compared to the others. When referring to the plots one can see that half of the algorithm's results are comparable while the transposition representation RRGa and the transposition representation RRGa+RS substantially outperformed the others. This can be seen on both of the large instances. These trends can be seen in both plots but is not explicitly found in other plots concerning the DNA fragment assembly problem, where it may be found in some cases but not in general. On the MW2 instance the transposition representation RRGa+IM version was able to perform better than the three direct representation variations but was not able to produce such strong results as the two other versions of the algorithm using the indirect transposition representation.

Comparison of First and Second Set of Experimental Results

Section B.5.2 contains plots which show comparisons between the results for the first (static number of restarts with the fixed transposition alteration paradigm) and second (dynamic number of restarts with the percentage transposition alteration paradigm) set of experiment. With a superficial look at the results one might be inclined to say that the dynamic approach produced much better results but after further analysis it is very difficult to determine which set of experiments worked better as all results are high quality, with most results within less than half a percent of each other.

One should consider that it is difficult to compare these experimental sets based simply on the number of restarts as these values are not the same between the first and second set of experimental results due to the nature of the dynamic restarting approach.

Forced Recentre

Table 6.10 summarizes the best results obtained by each algorithm with a forced recenter after the first restart and after post optimization. **Bold** entries represent the best performing algorithm's result on each data set and ***Italicized Bold*** entries are results that outperformed or tied all algorithms presented in Table 5.10. Comparisons for the f -series data set are made to Table 6.7. There are multiple instances where the results for more than one algorithm on a given data set outperformed all other algorithms presented in Table 5.10. These results show that at least one variation

Data Set Name	Dir. RRGA Max	Dir. RRGA+RS Max	Dir. RRGA+IM Max	Trans RRGA Max	Trans RRGA+RS Max	Trans RRGA+IM Max
acin1	47356	47354	47436	<i>47443</i>	47429	47407
acin2	151295	151269	151267	151322	151293	151299
acin3	166980	167015	167029	167351	167395	<i>167413</i>
acin5	163171	163167	163150	163168	163182	163143
acin7	179936	179920	179958	179975	179949	179959
acin9	343130	343111	343140	343171	343163	<i>343208</i>
bx842596_4	227269	227383	227184	227133	227570	227229
bx842596_7	442381	441393	441532	442079	441685	441429
j02459_7	116124	116139	116239	116327	116438	116333
m15421_5	38638	38664	38655	38681	38658	38636
m15421_6	48034	48043	48043	47939	47986	47973
m15421_7	55100	<i>55112</i>	55002	54960	54939	54959
x60189_4	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>
x60189_5	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>	14133
x60189_6	18216	18275	<i>18301</i>	18184	18292	<i>18301</i>
x60189_7	21196	21233	21260	21212	21212	21218
f25_305	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>
f25_400	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>
f25_500	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>
f50_315	1578	1580	1576	1578	1578	1578
f50_412	1571	1570	1572	1569	1569	1570
f50_498	1568	1565	<i>1570</i>	1568	1566	1565
f100_307	2771	2774	2771	2780	2773	2773
f100_415	2844	2840	2845	2845	2838	2842
f100_512	2718	2713	2714	2716	2718	2713
f508_354	17889	17925	17906	17921	17921	17899
f635_350	22193	22183	22203	22175	22168	22220
f737_355	24795	24800	24797	24808	24788	24796
f1343_354	48057	48098	48035	48090	48081	48092
f1577_354	56205	56172	56195	56182	56147	56159

Table 6.10: Summary of Results After Post Optimization and No Forced Recentre

of the studied algorithms was able to outperform the current best performing DNA fragment assembly problem algorithm on 11/16 problem instances. In addition, this batch was able to tie the suspected optimal on 5/14 of the f -series problem instances. Once again, all results are very competitive and are within a very small distance of the best result obtained by the best performing algorithm.

Table 6.11 shows that no one algorithm dominates on all problem instances. This trend appears to be consistent throughout all summary tables. Unlike previous tables, almost all of the best results on the original 16 benchmarks came from a variation of the RRGGA using the indirect transposition representation. The results for the f -series instances are inconsistent with the most consistency coming from the RRGGA with ring species using the direct representation. Although some results are better than others all algorithms performed well with very competitive candidate solutions and in many cases more than one variation of the RRGGA was able to outperform the previous best result.

Tables in Section A.6.2 demonstrate how inconsistent the results are with respect to the system parameter used. Unlike the previous set of experiments which did not force a recentre these results seem to be partial to the versions of the algorithm which were seeded with 2-Opt even with post optimization, however this trend cannot be seen in all tables. A surprising and very interesting observation that can be seen is that unlike all previous tables, as the likelihood of restarts increases, so does the

standard deviation. This suggests that there is a large spread in the results being produced. This large deviation could be very beneficial as the genetic diversity is likely to be higher. Overall the results are very close to one another across the system parameters and the algorithm variations.

Each plot summarizes the average result of all algorithms on a specific problem instance. Similar to the experiments with no forced recentre, the plots in Section B.5.2 show that on average, no one algorithm always outperforms the others and all results are very competitive. Overall there are minimal trends seen with the likelihood of restarts and the quality of results. There are isolated cases of trends in which the number of restarts affects the results on a specific algorithm on particular problem instances but these are few and far between. Unlike previous results, the 95% confidence intervals do not change with respect to the increase in likelihood of restarts occurring. In almost all cases the best mean value was obtained by a version of the algorithms that used some number of restarts.

Comparison of No Forced and Forced Recentre Experimental Results

When comparing the results seen in Tables 6.10 and 6.11 it is clear that forcing a recentre on the first restart has a strong impact on the overall results.

When analyzing the plots seen in Section B.5.2 it can be seen that all results are competitive and very close to one another. The easiest observation that can be made is that in almost all cases the best performing algorithm was one which used the forced recentre. This phenomenon is not surprising as one would expect that forcing an initial restart will jump start the benefit of the RRGAs at avoiding local optima.

6.6.3 Third Set of Results

The third set of experiments was identical to the second set with the addition of another round of RRGAs variations and post optimization. One could consider the addition of another round of metaheuristics and post optimization. Ultimately the results in this section will be of similar form to the following: *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic* \rightarrow *metaheuristic* and *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic*. The reason for this implementation is to explore the effectiveness of the RRGAs variations at avoiding a strong local optimum and to determine if additional learning is worth while after a strong convergence.

In this section the experiments that are finished with the metaheuristic are considered the ones with “no post optimization” and the experiments finished with the

Data Set	Dir. RRGA Max	Dir. RRGA+RS Max	Dir. RRGA+IM Max	Trans RRGA Max	Trans RRGA+RS Max	Trans RRGA+IM Max
Name						
acin1	47429	47403	47436	<i>47443</i>	47429	47409
acin2	151295	151299	<i>151329</i>	151322	151305	151299
acin3	166980	167015	167140	167351	167395	<i>167413</i>
acin5	163171	163167	163186	163182	<i>163232</i>	163193
acin7	179969	179966	179958	180040	<i>180087</i>	180043
acin9	343152	343137	343165	<i>343279</i>	343208	343220
bx842596_4	227269	227383	227235	227133	<i>227570</i>	227229
bx842596_7	442381	442480	441922	442079	441685	441429
j02459_7	116172	116298	116401	116391	116438	116308
m15421_5	38638	38664	38655	38681	38658	38636
m15421_6	48034	48043	48043	47939	47986	47976
m15421_7	55100	55112	<i>55141</i>	54960	54968	55065
x60189_4	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>
x60189_5	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>	14133
x60189_6	18216	18275	<i>18301</i>	18184	18292	<i>18301</i>
x60189_7	21196	21233	21260	21212	21212	21218
f25_305	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>
f25_400	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>
f25_500	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>
f50_315	1578	1580	1576	1578	1578	1578
f50_412	<i>1573</i>	1571	1572	1569	1569	1570
f50_498	1568	<i>1570</i>	<i>1570</i>	1568	1566	1565
f100_307	2777	2779	2774	2780	2778	2779
f100_415	2844	2843	2846	2845	2838	2842
f100_512	2718	2713	2714	2716	2718	2713
f508_354	17896	17925	17906	17921	17921	17920
f635_350	22193	22219	22204	22196	22199	22220
f737_355	24795	24844	24797	24808	24795	24798
f1343_354	48080	48108	48104	48124	48094	48105
f1577_354	56214	56172	56195	56182	56193	56204

Table 6.11: Summary of Results After Post Optimization and Forced Recentre

heuristic are considered to have been post optimized.

Just like the second set of experiments the dynamic approach to the number of restarts was taken. The factor approach (2x the number of fragments) to the initial number of transpositions with the percentage approach to alter the number of transpositions on a recentre was also used.

Similar to the second set of experiments conducted, variations of the algorithms which forced a recentre to occur on the first restart were implemented. For more details on these results refer to Section 6.6.3.

All results for the third set of experiments can be found in Section A.6.3. Section A.6.3 has results that have not had any post optimization and Section A.6.3 contains the results after 2-Opt was applied as a post optimization technique. Section A.6.3 contains results when there was no post optimization and a forced recentre on the first restart and Section A.6.3 contains post optimized results with a forced recentre on the first restart. There are multiple tables for each problem instance where each table corresponds to a particular algorithm variation. All tables are presented such that every combination of system parameters used is available. The tables are broken down into groups of columns which display each set of number of restarts used: 0 (basic GA), 5, 10, and 20.

Plots summarizing the best results for the third set of results can be found in Section B.5.3, specifically Section B.5.3 contains the plots before any post optimiza-

tion was performed with no forced recentre, Section B.5.3 contains results after post optimization with no forced recentre, Section B.5.3 contains plots before any post optimization with a forced initial recentre, and Section B.5.3 contains plots with post optimization and a forced recentre on the first restart. All of these plots are of the mean values along with vertical bars that represent the 95% confidence interval. All plots give a visualization of results allowing for trends to easily be observed and each plot shows the results of all algorithm variations on a given problem instance.

Section B.5.3 contains plots comparing the second and third experimental results and section B.5.3 contains plots comparing the effect of no forced recentre and a forced recenter.

No analysis is done on the results obtained that have no “post optimization” as these results are less significant and post optimization considerably improves the results.

The best average result for each algorithm variation on each problem instance was not included in the summary tables in this section. For a complete set of the average results on all instances for all sets of system parameters refer to Section A.6.3.

No Forced Recentre

A summary of the best results obtained by each algorithm after post optimization and no forced recentre can be seen in Table 6.12. **Bold** entries represent the best performing algorithm’s result on each data set and ***Italicized Bold*** entries are results that outperformed or tied all algorithms presented in Table 5.10. Comparisons for the f -series data set are made to Table 6.7. There are multiple instances the results for more than one algorithm on a given data set outperformed all other algorithms presented in Table 5.10. This table shows that at least one variation of the implemented algorithms outperformed all others on 13/16 problems. These results are unprecedented as not only are these algorithms performing well but no other algorithm performs as well as consistently. These algorithms were also able to achieve the suspected optimal on 5/14 of the f -series problem instances. Similarly to the previous experiments all results were very close to one another which suggests that all algorithm variations studied are effective. A clear improvement over the second set of results can be observed from this summary table.

Table 6.12 shows that no one algorithm always dominates but similar to the second set of results, the transposition representation variations appear to perform better than the direct representation variations. Again, all results are very close to one another and in nearly all cases the algorithms are able to produce results less than

Data Set Name	Dir. RRGA Max	Dir. RRGA+RS Max	Dir. RRGA+IM Max	Trans RRGA Max	Trans RRGA+RS Max	Trans RRGA+IM Max
acin1	47356	47354	47436	<i>47458</i>	47433	47447
acin2	151295	151269	151267	<i>151322</i>	151293	151299
acin3	166980	167015	167029	167351	167395	<i>167413</i>
acin5	163171	163167	163150	163168	<i>163182</i>	163143
acin7	179936	179920	179958	179975	179949	179959
acin9	343130	343111	343140	343171	343163	<i>343208</i>
bx842596_4	227269	227383	227184	227238	<i>227570</i>	227384
bx842596_7	442381	441393	441532	442269	442115	441532
j02459_7	116124	116139	<i>116662</i>	116434	116454	116406
m15421_5	38638	38664	38664	38694	38688	38690
m15421_6	48034	48043	48043	<i>48052</i>	48050	48032
m15421_7	55100	55112	<i>55168</i>	55036	55020	55034
x60189_4	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>
x60189_5	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>
x60189_6	18216	<i>18301</i>	<i>18301</i>	<i>18301</i>	<i>18301</i>	<i>18301</i>
x60189_7	<i>21271</i>	21233	<i>21271</i>	21212	21218	21218
f25_305	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>
f25_400	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>
f25_500	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>
f50_315	<i>1581</i>	1580	1576	<i>1581</i>	1578	1578
f50_412	1571	1570	1572	1572	1572	1570
f50_498	1568	1565	<i>1570</i>	1568	1568	1567
f100_307	2771	2774	2771	2780	2773	2773
f100_415	2844	2840	2845	2845	2838	2842
f100_512	2718	2713	2714	2717	2718	2713
f508_354	17889	17925	17906	17921	17921	17899
f635_350	22193	22183	22203	22175	22168	22220
f737_355	24795	24800	24797	24808	24788	24796
f1343_354	48057	48098	48035	48090	48081	48092
f1577_354	56205	56172	56195	56182	56147	56159

Table 6.12: Summary of Results After Post Optimization on Two Sets of GA Runs and No Forced Recentre

1% away from the suspected optimal.

The tables in Section A.6.3 show that, once again, system parameters have a minimal impact on the final result. Unlike previous results using 2-Opt, post optimization had a minimal impact on the end results. This can be explained due to the fact that the algorithm has had a long time to run and thereby loses the benefit of the initial seeds. An interesting note is that unlike the earlier experimental results the standard deviation tends to grow with the likelihood of more restarts increased. Overall the results are very close to one another across the system parameters and the algorithm variations.

Each plot summarizes the average result of all algorithms on a specific problem instance. Many of the previous trends observed in plots on previous experiments can be seen in the plots in Section A.6.3. These plots show that on average all algorithms perform competitively and that no one algorithm always dominates. The effect the likelihood of restarts has on the quality of results is inconsistent and chaotic, however it appears that the results are improved by having at least some number of restarts occurring. Unlike previous results, these plots show that the likelihood of restarts has minimal effect on the confidence interval. For a more specific view of the results refer to individual plots seen in Section A.6.3.

Forced Recentre

Table 6.13 summarizes the best results obtained by each algorithm after post optimization with a forced recenter. **Bold** entries represent the results for the best performing algorithm on each data set and ***Italicized Bold*** entries are results that outperformed or tied all algorithms presented in Table 5.10. Comparisons for the *f*-series data set are made to Table 6.7. There are many instances where the results for more than one algorithms on a given data set outperformed all other algorithms presented in Table 5.10. Table 6.13 shows that at least one variation of the studied algorithms outperformed the best DNA fragment assembly problem algorithms on 13/16 of the problem instances. Although Table 6.12 had the same result (13/16 problem instances) the actual problem instances for which these results were obtained are different showing that no one approach is best. It should be noted that more variations of the algorithms are achieving better results consistently on this particular experiment set. The algorithms were also able to achieve the suspected optimal on 5/14 of the *f*-series problem instances. All results were very close to one another suggesting that all algorithm variations studied are effective.

Table 6.13 shows that no one algorithm dominates all problem instances, however, once again, the transposition representation variations appear to perform better. All results are very competitive regardless of whether they beat out all other algorithms. In most cases all algorithms were able to achieve results within less than 1% of the suspected optimal.

Section A.6.3 contains tables with results of all experiments conducted for this set of runs. Similar to almost all results so far in this work the system parameters have minimal impact on the results. Unlike previous results the likelihood of more restarts has no apparent impact on the standard deviation, i.e. these values increase and decrease with no apparent trend.

Each plot available in Section B.5.3 summarizes the average result of all algorithms on a specific problem instance. Previous trends observed in plots on prior experiments can be seen in these plots. These plots show that on average all algorithms perform competitively and no one algorithm always dominates. Similar to the results seen in Section B.5.3 which presents plots with no forced recenter, the effect of the likelihood of restarts on the quality of results is inconsistent and chaotic. However it appears that the results are improved by having at least some number of restarts occurring. In addition the ring species variations of the algorithms perform very competitively. The confidence intervals change with respect to the likelihood of restarts in an interesting way: when the results are improved with the use of restarts then the 95% confidence

Data Set Name	Dir. RRGA Max	Dir. RRGA+RS Max	Dir. RRGA+IM Max	Trans RRGA Max	Trans RRGA+RS Max	Trans RRGA+IM Max
acin1	47454	<i>47543</i>	47425	47460	47470	47433
acin2	151294	151308	151346	<i>151353</i>	151336	151320
acin3	167183	167158	167124	<i>167431</i>	167420	167382
acin5	163290	163177	163206	<i>163319</i>	163272	163237
acin7	179978	179968	179936	<i>180177</i>	180147	180088
acin9	343187	343286	343181	<i>343315</i>	343297	343310
bx842596_4	227316	227182	227093	227238	227321	<i>227384</i>
bx842596_7	443435	442688	442689	442385	442227	442101
j02459_7	116391	116405	116383	116487	116487	116352
m15421_5	38683	38684	38662	38694	38681	38681
m15421_6	48050	48050	47978	<i>48052</i>	48041	48039
m15421_7	55152	55155	<i>55168</i>	55071	55020	55050
x60189_4	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>
x60189_5	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>
x60189_6	18184	<i>18301</i>	<i>18301</i>	<i>18301</i>	<i>18301</i>	<i>18301</i>
x60189_7	<i>21271</i>	21268	21217	21212	21218	21218
f25_305	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>
f25_400	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>
f25_500	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>
f50_315	<i>1581</i>	1580	1578	1578	1578	1578
f50_412	1572	1572	1572	1572	1571	1569
f50_498	1568	<i>1570</i>	<i>1570</i>	<i>1570</i>	<i>1570</i>	<i>1570</i>
f100_307	2784	2776	2779	2780	2779	2776
f100_415	2848	2846	2843	2846	2845	2846
f100_512	2716	2715	2717	2717	2717	2720
f508_354	17943	17914	17916	17936	17949	17901
f635_350	22202	22181	22208	22239	22240	22222
f737_355	24829	24801	24821	24844	24840	24854
f1343_354	48100	48132	48112	48205	48209	48157
f1577_354	56237	56254	56256	56300	56306	56243

Table 6.13: Summary of Results After Post Optimization on Two Sets of GA Runs and Forced Recentre

interval decreases but if these results do not improve then the interval increases. These trends cannot be seen in all plots and for a more specific view of the results refer to the individual plots.

Comparison of No Forced and Forced Recentre Experimental Results

A comparing of the results seen in Tables 6.12 and 6.13 it is clear that forcing a recentre on the first restart has a strong impact on the overall results.

When analyzing the plots found in Section B.5.3 it can be observed that all results are very competitive and close to one another. Similar to the observation made on the second set of experimental results, in almost all cases the best performing algorithm was one which implemented a forced recentre. This trend is expected as forcing an initial restart will jump start the benefit of the RRGa in avoiding local optima.

Comparison of Second and Third Set of Experimental Results With Forced Restarts

Section B.5.3 contains plots which show comparisons between the second and third set of experimental results. These plots make it very clear that the third set of experimental results are better. This is not surprising considering that the RRGa variation

is run completely an additional time with another run of 2-Opt as post optimization on the third set. These results simply demonstrate the benefit of combining heuristics and metaheuristics in creative ways.

6.6.4 Fourth Set of Results

The fourth set of experiments was a reimplementaion of the third except the representations were swapped, i.e. if the first metaheuristic used the direct representation then the second metaheuristic used the indirect transposition representation. Just like the third set of experiment runs, this section will be of similar form to the following: *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic* \rightarrow *metaheuristic(repSwap)* and *heuristic* \rightarrow *metaheuristic* \rightarrow *heuristic* \rightarrow *metaheuristic(repSwap)* \rightarrow *heuristic*. Experiments finished with the metaheuristic are considered the ones with “no post optimization” and the experiments finished with the heuristic are considered to have been post optimized.

The reasoning behind swapping the representations is to try to take advantage of the topography of each representation’s search space. By changing the representations one could reason that another representation could easily remove itself from a local optimum as there is a chance that the optimum may not be present in a different landscape.

The summary tables in this section are presented in such a way that the results are under the representations on which they finished. For example, if a run was started with the RRGa+RS using the direct representation followed by a run of the RRGa+RS using the indirect transposition representation then it would be presented in the summary table under the “Trans (snd) RRGa+RS” column.

This fourth set of experiments used the dynamic approach to the number of restarts. The factor approach (2x the number of fragments) to the initial number of transpositions with the percentage approach to alter the number of transpositions on a recentre was used.

Similar to the second and third set of experiments, variations of the algorithms which forced a recentre to occur on the first restart were implemented. For details on these results refer to Section 6.6.4.

All results for the fourth set of experiments can be found in Section A.6.4. Section A.6.4 has results that have not been post optimized and Section A.6.4 contains the results after 2-Opt was applied as a post optimization technique. Section A.6.4 contains results when there was no post optimization and a forced recentre on the

first restart and Section A.6.4 contains post optimized results with a forced recentre on the first restart.

Multiple tables are presented for each problem instance where each table corresponds to a particular algorithm variation. All tables are presented such that every combination of system parameters used is available. The tables are broken down into groups of columns displaying each set of number of restarts used: 0 (basic GA), 5, 10, and 20.

Plots summarizing the best results for the fourth set of results can be found in Section B.5.4. Section B.5.4 contains the plots before any post optimization was performed with no forced recentre and Section B.5.4 contains results after post optimization with no forced recentre. Section B.5.4 contains plots before any post optimization with a forced initial recentre and Section B.5.4 contains plots with post optimization and a forced recentre on the first restart. All of these plots are of the mean values along with vertical bars that represent the 95% confidence interval. All plots give a visualization of results allowing for trends to easily be observed and each plot shows the results of all algorithm variations on a given problem instance.

Section B.5.4 contains plots comparing the third and fourth experimental results and Section B.5.4 contains plots comparing the results when using no forced recentre and a forced recentre.

No analysis is done on the results obtained that have no “post optimization” as these results are less significant and post optimization considerably improves the results.

The best average result for each algorithm variation on each problem instance was not included in the summary tables in this section. For a complete set of the average results on all instances on all sets of system parameters refer to Section A.6.4.

Results With Post Optimization and No Forced Recentre

Table 6.14 contains a summary of the best results obtained by each algorithm after post optimization and no forced recentre. **Bold** entries represent results for the best performing algorithm on each data set and ***Italicized Bold*** entries are results that outperformed or tied all algorithms presented in Table 5.10. Comparisons for the f -series data set are made to Table 6.7. There are multiple instances where the results for more than one algorithm on a given data set outperformed all other algorithms presented in Table 5.10. In this table one can observe that at least one variation of the implemented algorithms outperformed all others on 13/16 of the problems and were able to achieve the suspected optimal on 5/14 of the f -series

problem instances. These results are unprecedented as not only are these algorithms performing well but no other algorithm performs as well as consistently. Similarly to the previous experiments all results were very close to one another which suggests that all algorithm variations studied are effective.

Table 6.14 unsurprisingly shows that no one algorithm dominates all problem instances. Unlike the second and third experiment sets there was a trend of the transposition representation constantly performing better. This is reasonable as the representations are being mixed halfway through the executions. All results are very close to one another and in almost all cases the algorithms are able to produce results less than 1% away from the suspected optimal.

As one would expect based on previous observations, the tables in Section A.6.4 show that the system parameters have little to no real effect on the final result. Unlike the common trend seen in many of the experiments of the initial seed being important, these results suggest otherwise as there is minimal consistency seen with respect to which seed works better. This is not surprising due to the fact that the algorithm has had a long time to run and lose the benefit of the initial seed. The standard deviation tends to grow as the likelihood of more restarts increased. Overall the results are very close to one another across the system parameters and the algorithm variations.

The tables in Section A.6.4 show that, once again, system parameters have a minimal impact on the final result with no real statistical differences. Similar to almost all previous results, the runs that were seeded with 2-Opt tended to perform better (although this trend cannot be seen in all cases). The values of the standard deviations are chaotic and only small isolated trends can be observed from table to table. Overall the results are very close to one another across the system parameters and the algorithm variations.

Section A.6.4 contains plots summarizing the average result with the 95% confidence interval on all algorithms on a specific problem instance. These plots show that on average all algorithms perform very competitively and that no one algorithm always dominates. In most cases all results are within 1% of each other. The effect of the likelihood of restarts on the quality of results is inconsistent and chaotic but in almost all cases the results are improved by having at least some number of restarts occurring. These plots show that the likelihood of restarts has little to no effect on the confidence interval. For a more specific view of the results refer to individual plots seen in Section A.6.4.

Data Set Name	Dir. (snd) RRGA Max	Dir. (snd) RRGA+RS Max	Dir. (snd) RRGA+IM Max	Trans (snd) RRGA Max	Trans (snd) RRGA+RS Max	Trans (snd) RRGA+IM Max
acin1	47443	47429	47452	<i>47497</i>	47466	47474
acin2	151322	151293	151299	151295	151269	151267
acin3	167351	167395	167413	166980	167015	167029
acin5	163168	163182	163143	163171	163167	163150
acin7	179975	179949	179959	179936	179920	179958
acin9	343171	343163	343208	343130	343111	343140
bx842596_4	227133	227570	227229	227481	227383	227184
bx842596_7	442079	441685	441429	442903	442246	442452
j02459_7	116327	116438	116373	116348	116188	116502
m15421_5	38681	38658	38690	38683	38666	38690
m15421_6	47957	48043	48050	48052	48052	48046
m15421_7	54975	54939	55156	55165	55161	55168
x60189_4	11478	11478	11478	11478	11478	11478
x60189_5	14161	14161	14161	14161	14161	14161
x60189_6	18301	18301	18301	18216	18301	18301
x60189_7	21271	21249	21218	21271	21233	21271
f25_305	596	596	596	596	596	596
f25_400	777	777	777	777	777	777
f25_500	921	921	921	921	921	921
f50_315	1578	1578	1578	1581	1580	1576
f50_412	1569	1569	1570	1571	1570	1572
f50_498	1568	1566	1567	1568	1570	1570
f100_307	2780	2773	2773	2771	2774	2771
f100_415	2845	2838	2842	2844	2840	2845
f100_512	2716	2718	2713	2718	2713	2714
f508_354	17921	17921	17899	17889	17925	17906
f635_350	22175	22168	22220	22193	22183	22203
f737_355	24808	24788	24796	24795	24800	24797
f1343_354	48090	48081	48092	48057	48098	48035
f1577_354	56182	56147	56159	56205	56172	56195

Table 6.14: Summary of Results After Post Optimization on Two Sets of GA Runs With Swapping Representations and No Forced Recentre

Results With Post Optimization and Forced Recentre

Table 6.15 summarizes the best results obtained by each algorithm after post optimization with a forced recentre. **Bold** entries represent the results of best performing algorithm on each data set and ***Italicized Bold*** entries are results that outperformed or tied all algorithms presented in Table 5.10. Comparisons for the f -series data set are made to Table 6.7. There are many instances where the results for more than one algorithm on a given data set outperformed all other algorithms presented in Table 5.10. Table 6.13 shows that at least one variation of the studied algorithms outperformed the best DNA fragment assembly problem algorithms on 13/16 of the problem instances. Similar to the third set of experiments, Table 6.14 (which refers to the same experiment but with no forced recentre) had the same result but the actual problem instances of which these results were obtained are different. This demonstrates how no one approach is always the best and why multiple approaches should be taken. The algorithms were also able to achieve the suspected optimal on 6/14 of the f -series problem instances which is the highest count for all experiment sets. All results were very close to one another suggesting that all algorithm variations studied are effective.

Summary Table 6.15 demonstrates that no algorithm completely dominates all problem instances. Similar to the trend seen in Table 6.14, there is minimal consis-

Data Set Name	Dir. (snd) RRGA Max	Dir. (snd) RRGA+RS Max	Dir. (snd) RRGA+IM Max	Trans (snd) RRGA Max	Trans (snd) RRGA+RS Max	Trans (snd) RRGA+IM Max
acin1	47441	47432	<i>47494</i>	47481	47466	47477
acin2	151291	151294	151295	<i>151343</i>	151321	151335
acin3	167204	<i>167292</i>	167229	167133	167204	167268
acin5	163203	163260	163215	<i>163280</i>	163262	163246
acin7	180021	180020	180000	<i>180120</i>	180073	180033
acin9	343194	343173	343157	343308	343305	<i>343314</i>
bx842596_4	227487	227402	227271	227481	<i>227492</i>	227297
bx842596_7	443080	442480	442648	442903	443195	442452
j02459_7	116512	116480	116361	116483	116498	116502
m15421_5	38693	38691	38690	38694	38666	38690
m15421_6	48046	48043	<i>48052</i>	<i>48052</i>	<i>48052</i>	48048
m15421_7	55130	55141	55156	55166	<i>55169</i>	55168
x60189_4	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>	<i>11478</i>
x60189_5	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>	<i>14161</i>
x60189_6	<i>18301</i>	<i>18301</i>	<i>18301</i>	18216	<i>18301</i>	<i>18301</i>
x60189_7	<i>21271</i>	21238	21218	<i>21271</i>	21233	21245
f25_305	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>	<i>596</i>
f25_400	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>	<i>777</i>
f25_500	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>	<i>921</i>
f50_315	1578	1577	1577	<i>1581</i>	<i>1581</i>	1579
f50_412	1571	1571	1570	<i>1573</i>	1571	1572
f50_498	1568	<i>1570</i>	1568	1568	<i>1570</i>	1567
f100_307	2781	2779	2778	2778	2779	2782
f100_415	2847	2845	2845	2851	2849	2847
f100_512	2718	2720	2716	2721	2716	2715
f508_354	17911	17929	17899	17951	17927	17914
f635_350	22210	22186	22213	22238	22237	22220
f737_355	24821	24824	24810	24850	24851	24827
f1343_354	48096	48134	48160	48215	48225	48188
f1577_354	56242	56216	56234	56320	56386	56314

Table 6.15: Summary of Results After Post Optimization on Two Sets of GA Runs With Swapping Representations and Forced Recentre

tency with respect to how the representations perform compared to the second and third set of experiments. Once again, this is reasonable as the representations are being mixed halfway through the executions. All results are very competitive regardless of whether they beat out all other algorithms. In most cases all algorithms were able to achieve results within less than 1% of the suspected optimal.

Section A.6.4 contains tables with results of all experiments conducted for this set of runs. Similar to almost all results so far in this work the system parameters, including the initial seeds, have minimal impact on the end results. A few isolated trends can be observed with regards to the standard deviation but cannot be seen in general.

Section B.5.4 presents plots which summarize the average result of all algorithms on all problem instances. As one would expect based on previous results, on average all algorithms perform competitively and no one algorithm always dominates. Once again, the effect of the likelihood of restarts on the quality of results is inconsistent and chaotic, but it is clear that there are definite improvements by having at least some number of restarts. The confidence intervals do change but with no apparent trends. Other various small trends can be seen in isolated cases but not in general.

Comparison of No Forced and Forced Recentre Experimental Results

When comparing the results seen in Tables 6.14 and 6.15 it can be seen that forcing a recentre on the first restart has an impact on the overall quality of the results.

When analyzing the plots found in Section B.5.4 it can be observed that in almost every case forcing a recentre on the first restart improves the results over those that had no forced recentre. This trend was seen before in the second and third set of experiments. It is not surprising to see this trend as forcing an initial restart will jump start the benefit of the RRGA at avoiding local optima. Refer to individual plots in Section B.5.4 for details on specific problem instances.

Comparison of Third and Fourth Set of Experimental Results With Forced Restarts

Section B.5.4 contains plots which show comparisons between the third and fourth set of experimental results. These plots are chaotic and it is clear that there is no consistency as to which set of experiments (third or fourth) work better. This is not unreasonable considering that both the third and fourth set of experiments underwent multiple cycles of heuristics and metaheuristics. Although this set of experiments swapped which representation was being used and there are specific cases where these results are the best, there appears to be no overall significant benefit. That being said, these results firmly suggest that if one wants to maximize the results for real world problems then one should rigorously study a batch of algorithms and algorithm combinations to fully explore the search space.

Chapter 7

Conclusions and Future Work

This thesis rigorously studies multiple ordered gene problems with multiple algorithms. These problems were the travelling salesman problem, bin packing problem, and the vertex colouring variation of the graph colouring problem. In addition to straightforward ordered gene problems two additional bioinformatics problems which are not traditionally seen as ordered gene problem, namely DNA error correction and DNA fragment assembly, were represented as such. These problems were successfully represented as ordered gene problems and algorithms which traditionally perform well on ordered gene problems performed just as well on the two bioinformatics problems.

Genetic algorithm variations were studied (Recentering-Restarting, Ring Species, and Island Model) in combination with each other with great success. These algorithms were also combined with heuristics and other local search algorithms with significant results. These algorithms worked very well when implemented with each other as they were able to take advantage of their respective strengths while avoiding their shortcomings. An example of this would be the strong performance of the RRGGA when 2-Opt was used as an initial seed: heuristics can produce high quality solutions but often fall into a local optima; by using the RRGGA, which is known to be very effective at removing itself from local optima, the heuristic solutions could be greatly improved upon. In addition to this specific benefit, in many cases the RRGGA was observed to produce much better solutions than conventional heuristics, conventional metaheuristics, and even highly specialized heuristics and metaheuristics. When the Recentering-Restarting idea was implemented in combination with these other approaches the quality of results was improved.

Two representations were studied, the direct representation and the indirect transposition representation. Both of these approaches worked well in general but there appeared to be an interesting and important trend. When working in any search space

the direct representation always performs relatively well but seems to excel over the transposition representation when the starting location within the search space is randomly generated with no guarantee of the quality of the initial population. In contrary to the direct representation, the indirect transposition representation performs very well in very large search spaces and appears to outperform the direct representation when the starting location is already of high quality. An example of this would be the experiments conducted which used heuristics to seed the algorithm. This observation is not surprising as the transposition representation is built upon local search operators allowing it to search in more than one way at a time. Although this trend is observed when the algorithm is seeded with already high quality solutions, the transposition representation appears to perform poorly when seeded with the identity permutation. This is also reasonable as identifying the number of transpositions required to generate a high quality solution with the indirect representation is in itself another optimization problem. These observation suggests the indirect representation may be more appropriate for a strategy using multiple algorithms for further post-optimization.

Overall the results produced are very high quality and demonstrate many things. All algorithms perform very well and become even more competitive when combined with one another. This supports the idea that if one wants to study a specific problem then one should not simply take one specific algorithm, tune it, and perform a parameter sweep. By doing this one would severely limit the quality of results and miss the opportunity to draw significant conclusions. To avoid this problem many algorithms should be studied and implemented. By combining multiple approaches it is possible to thoroughly traverse a search space and achieve better results. This becomes particularly important when studying sensitive problems which have major real world implications such as DNA error correction and DNA fragment assembly. Scientific progress could be substantially inhibited if scientists constantly limit themselves with this ignorant one algorithm approach. This hindrance could be particularly detrimental when working in a domain of life sciences such as bioinformatics.

Throughout the work it was observed that the small trends being detected in the data rapidly disappeared as more problem instances and more system parameters were studied. This phenomenon appeared on all three problems studied. This suggests that the minor trends were insignificant and dependant on the specific problem instances. This problem specific observation corresponds to work done in [84]. This highlights one of the common problems in this field of research; scientists, intentionally or unintentionally, cherry pick their data to demonstrate trends which are in reality

insignificant. This further advocates for a truly thorough analysis of work using multiple search strategies.

Other general observations can be made in addition to the major ones discussed above regarding the heuristic-metaheuristic combination and the effect of the transpositions. Some of these noteworthy observations are presented below.

It became clear that the RRGGA has major strengths and advantages and can produce very competitive results (in many cases it achieved the best results). These advantages include the ability to avoid local optima and premature convergence, tune already high quality solutions, and force one to use a dynamic representation. Major benefits can be seen when implemented with other genetic algorithm variations such as Ring Species and the Island Model. Although the RRGGA could outperform these variations they are still very competitive. By adding the RRGGA methodology to these variations a constructive effect was observed and the results were further improved.

It was demonstrated that using multiple sets of heuristics and metaheuristics greatly improved the results over an individual run. This observation may seem trivial but would be very difficult to implement if one were simply using one algorithm. For example, running an additional genetic algorithm immediately after one completes and converges would result in no real improvement. It is likely that local optima did not become an issue when switching algorithms as the heuristics and metaheuristics used took different trajectories through the search space and the topography of the search space is different depending on the algorithms and representations used. It is reasonable to consider that this effect is amplified when using the indirect transposition representation due to the fact that the implemented heuristics exclusively used the direct representations.

It is unclear as to whether the static restart approach or the dynamic restart approach was better. Although there were minimal trends in favour each way no strong conclusions could be made. The dynamic approach seems to have a benefit in being more general, however, similar to the theme of this work, one should try multiple strategies when studying a problem.

As observed in Section 6.6, it is quite clear that there is an added benefit of forcing an initial recentre. It appears that forcing an initial restart jump starts the benefit of the RRGGA at avoiding local optima.

Conclusions pertaining to specific problems can be seen in the subsequent sections.

7.1 Travelling Salesman Problem: Small Problem Instances

The purpose of examining the small TSP instances was to demonstrate that no one algorithm performs best on all problem instances within the same domain. This differs from the no free lunch theorem [139] as this deals with problems within the same domain where the no free lunch theorem considers all algorithms on all problems. Even though no one algorithm dominates all problems, maybe one algorithm could dominate all problems within the same domain? This particular problem was studied to demonstrate that this is not the case. This problem was studied before but this idea was never fully demonstrated due to a few trends which could have been interpreted as one algorithm dominating [78][76].

The problem was studied with a different approach which counted the best performing algorithms in another way. This approach eliminated the requirement of the best performing algorithm being counted only if it to achieve a result within 5% of the optimal.

The results in Table 6.1 show that on the small problem instances all algorithm variations perform very well with no one algorithm dominating. Unfortunately this trend is eliminated when more cities are added. Once the 20 city problems were analyzed it became very clear that in fact the basic GA always performed the best.

There are a number of reasonable explanations for why this happened, but the most sound argument is that since the RRGAs have restarts and recentres it is likely that the algorithms never had the chance to fully explore the search space before a restart. These restarts and recentres are very destructive operations for small problems as they would remove any significant gains made in the search space. This phenomenon would probably not be an issue if the RRGAs were given enough generations to fully explore the search trajectories taken.

This hypothesis led to the addition of more experiments which increased the number of generations by an order of 10. A summary of these results can be seen in Table 6.2. These results clearly show that no one algorithm dominates all solutions with 4/8 of the algorithms studied achieving (or tying) the best result on at least 50/100 of the 20 city problems. These improvements were not gained by disadvantaging the basic GA, or giving the RRGAs an advantage, they were gained by removing the advantage the basic GA had over the RRGAs. It is expected that if one were to increase the number of generations further the RRGAs would have an unfair advantage because the RRGAs excel at avoiding local optima and converging

early. This would allow these algorithms to continue searching the space while the basic GA would get stuck too early.

Regardless of whether or not the small problem instances show that no one algorithm dominates all problem instances within the same domain (which in fact is shown in these results), the results from all other subsequent sections show that this is in fact the case in general.

7.2 Bin Packing Problem

The purpose of studying the bin packing problem is to show why the RRGAs produce good results in addition to demonstrating how well these algorithms perform. It is normally easy to propose a new algorithm and show the quality of the results but often difficult to understand why a certain algorithm performs the way it does. Fortunately the RRGAs were constructed with the mechanical benefits in mind which will make it easier to understand why they work.

Firstly, all results are high quality and very competitive on both sets of data sets. Although these results are good they are not the best for the studied problem instances. This is not a negative as there are more appropriate representations and genetic operators for problems of this type (see [55]). These techniques could have been implemented and it would be likely that they would produce even better results but this would demonstrate no benefit as it would exemplify the representations and genetic operators, not the RRGAs.

The algorithms performed well on both groups of data sets but interestingly their performance was better on the ones developed to be very difficult (the *hard28* instances). In many cases the algorithms were able to obtain optimal or near optimal results. Another trend seen was how well the direct representation variations performed compared to the indirect transposition representation variations. Overall there was no consistency with the results being statistically different between the representations but when strictly comparing the best performing versions of the algorithms there was a clear, statistically significant advantage when using the direct representation. Section B.1 contains plots which allow for an easy visualization of this effect.

The most important trend that should be noted is that the restarts and recentres force the RRGAs out of local optima into much better solutions. Generally, as the likelihood of more restarts occurring increases, so does the quality of the solutions. On multiple instances the basic GA performed better when starting with a random seed

as opposed to the 2-Opt seed. This at first seems unusual but reasonable as 2-Opt is likely putting the basic GA into a local optimum from which it cannot remove itself. Evidence of this being the case is easy to see when observing the same experiments after restarts occur: when restarts are introduced to the algorithms using 2-Opt as the initial seed the end results surpass those of the basic GA with the random starting seed. This goes to show how well the RRGGA is avoiding local optima and forcing the algorithm into new areas of the search space.

Memetic variations of the algorithms for the bin packing problem were implemented and studied. Unfortunately these versions did not perform well and required longer run times.

7.3 Graph Colouring Problem

Similar to the purpose of studying the bin packing problem, the purpose of studying the vertex colouring variation of the graph colouring problem is to demonstrate why the RRGGA performs well.

It is easy to see how the RRGGA variations performed and for the majority of instances they exceeded the results obtained by the basic GA. Although these results are high quality it is very difficult to conclude how well they really performed as there are no known optima for most of the selected problem instances. The only real measure for these instances is the calculated lower bound but this is by no means guaranteed to be near the optimal solution.

Just like the BPP, it is assumed that a more fitting representation and genetic operators [55] would make the RRGGA perform better on this problem. This avenue was not taken since achieving the best possible results for the vertex colouring variation of the graph colouring problem is not the goal of this specific study, the goal is to understand why the RRGGA works and how it measures up against other algorithms as is.

The direct representation variations appear to perform better than the indirect transposition representation in general. When comparing the best performing versions of each variation the direct representation has a clear statistical difference over the indirect representation. The plots in Section B.2 give an easy visualization of how the two representations compare to one another.

Unlike the bin packing problem, 2-Opt did not appear to put the search algorithms into local optima from which they could not escape. There were cases where the basic GA would get stuck at the seed's local optimum. In these cases the Restarting-

Recentring variation were able to remove itself from these locations and continue to search in other areas of the landscape. This further demonstrating the benefits of the RRGA.

7.4 Travelling Salesman Problem: Large Problem Instances

The purpose of studying the large TSP instances was to be able to compare the quality of the results to other algorithms on one of the most competitively studied problems. In addition, multiple variations of the algorithm were studied in an attempt to explore more of the search spaces and to demonstrate how no one algorithm will dominate. The small problem instances were designed to show how no one algorithm dominates but further evidence will be beneficial in demonstrating this trend. This study also examines the effect of post optimization on the final results.

The LKH [71] was initially used as one of the seeds as it has been shown to be of very high quality, producing solutions very close to suspected optima [2]. Unfortunately, although the DIMACS TSP implementation challenge's website reported results in which the LKH did not achieve the suspected optimum, when analyzed in this work the LKH was in fact able to achieve optimal results. This is regrettable as the instances were selected based on the fact that the LKH did not produce the optimal. Unsurprisingly when the LKH was used as the seed the metaheuristics were not able to learn as they were already at the optimum.

Even though LKH appears to produce optimal results on all instances selected it is extremely unlikely that this will always be the case. One could reason that there must be problems where the LKH cannot produce optimal results as these types of problems are NP-Hard and one could likely construct such a problem which exploits the heuristics' shortcomings.

Because the TSP instances are substantially larger than the BPP and GCP instances the initial seed had a significant impact on the overall results. When 2-Opt was used as the seed the algorithm variations were able to produce solutions which are competitive and comparable to many of the best search algorithms.

As one would expect post optimization had a dramatic positive impact on the solutions generated by the metaheuristics. Interestingly, post optimization appears to reverse the trends seen with the seeds - the random seeds, as opposed to seeds from 2-Opt, seem to have better results after post optimization. An explanation could be

that results obtained from 2-Opt seeds become too specialized and post optimization cannot have a significant impact.

Unlike the BPP and GCP the indirect transposition representation performs better than the direct transposition. This is reasonable as the transposition representation should perform well in these large and chaotic search spaces due to it being built upon local search operators.

The RRGa and RRGa+RS with the indirect transposition representation appear to perform best but by no means is this a significant trend as these observations are inconsistent. Other than the isolated trends all variations perform very well and no one algorithm dominates. This observation corresponds to conclusions made in Section 7.1.

In addition to the fact that the restarts and recentres greatly benefit the algorithms, this study shows how well heuristics and metaheuristics work together. This is not unusual as memetic variations of algorithms are typically successful. Unfortunately the true memetic variations didn't perform well on the BPP. The combination of heuristics and metaheuristics combined in the way they are ("loosely" memetic) in this specific study shows a clear benefit.

7.5 DNA Error Correction

Error correction is the process of removing errors from information with the use of redundancy. The purpose of studying DNA error correction is to observe how effective the RRGa variations are on a problem which is not traditionally seen as an ordered gene problem. Side Effect Machines are used as a form of machine learning and evolved through the use of an encoding which treats the problem as an ordered gene problem. This study was compared to previous work done by Joseph Brown [35] with the goal of improving upon the results.

When considering the first set of results on the 4, 6, 12, and 18 state machines it is difficult to make any conclusions about the effectiveness of the RRGa using the direct representation as there was no significant improvement over the basic GA. However there was a noteworthy trend observed with the RRGa using the indirect transposition representation. This method performed much better on the fuzzy analysis compared to the direct SCM analysis and this observation is amplified when the number of states in the SEM is decreased. This resulted in SEMs able to correct 100% of the distance 1 and 2 errors and 98.47% of the distance 3 errors. These trends correspond to the observations made in [25] and [26] which concluded that SEMs with

a smaller number of states are able to generalize more effectively.

An important noteworthy observation is that both the direct and fuzzy analysis were able to produce correct decoding for a large majority of the cases.

When the smaller SEMs were studied the transposition representation performed exceptionally well again with the fuzzy analysis with multiple SEMs correcting 100% of the distance 1, 2, and 3 error.

Although these smaller SEMs with a lower tolerance performed very well it should also be noted that the success of the fuzzy analysis on the SEMs is probably due to the fact that the Euclidean distance between the classification vectors would decrease as the number of states decreases.

These results clearly demonstrate the effectiveness of converting a non ordered gene problem into an ordered gene problem for the sake of using popular and powerful search algorithms.

7.6 DNA Fragment Assembly

The purpose of studying the DNA fragment assembly problem was to take the knowledge gained by the previous studies and apply it to a crucial real world problem. The goal is to produce an algorithm that can robustly generate very high quality results consistently. Another purpose of studying this problem is to further analyze the benefits of combining heuristics and metaheuristics along with how well different metaheuristic approaches work when combined with one another.

The RRGAs and variations were able to produce very high quality results for the DNA fragment assembly problem. The results show that the RRGAs can produce significant results which substantially outperform all of the best metaheuristics for many of the problem instances. In many cases these algorithms were able to obtain the suspected optimal results.

When comparing the results obtained to the best previously used algorithms one can see that no one algorithm performs as well as consistently as the RRGAs. In addition, the RRGAs are so much simpler than the other studied algorithms. Many of these other algorithms were designed with the DNA fragment assembly problem in mind and are tuned to perform well on this specific problem. The RRGAs were not tuned in any way (other than the system parameters) in order to keep the algorithm general and very applicable to other problems.

Although these benchmarks were standardized prior to this study they were not in any way unfairly generated to benefit the RRGAs [102].

The results clearly show that there was little to no consistency with respect to how the system parameters affected the results. This suggests that one should do a full parameter sweep to fully explore the search space. However, these results show that the algorithm combinations do greatly affect the results. This suggests that spending too much time tuning the system parameters might be a waste of time as simply exploring other algorithms will likely produce much better results because of their ability to substantially alter the traversal of the search space.

There were many small isolated trends when it came to which algorithm produced the best results on the data sets but there is still a lot of inconsistency. This further suggests that there is a requirement to use multiple search strategies when studying a problem. This heavily corresponds to the observations made when studying the small TSP instances since no one algorithm dominates all data sets. This observation advocates for a strategy which studies multiple algorithms being applied to a problem, otherwise the analysis could lack in meaningful conclusions with less significant implications.

Even though the LKH is able to achieve the suspected optimal for the problem instances studied it is very unlikely that this would be the case for all instances. One could simply use LKH on these problem instances to maximize results but this would not show any significant benefit when analyzing the combination of heuristics and metaheuristics. As problem instances become larger the heuristics become infeasible due to the time required. These facts show the benefit of metaheuristics as there is always a trade-off when it comes to time and accuracy. It is ideal to use combinations of these heuristics and metaheuristics (through pre and post optimization and possibly memetic variations) to further better results. As these problems become larger it would be reasonable to use a higher quality heuristic as the initial seed such as the LKH instead of 2-Opt.

Results generated by the LKH may be too rigid as it is designed to work only with the sum of the distances in a Hamiltonian circuit. A major advantage of metaheuristics is the easy alteration of fitness functions such as those that minimize the number of contigs or maximize contig length.

When studying the results it is very obvious that combining heuristics and metaheuristics is very beneficial. When looking specifically at the third and fourth experiment sets (the two best performing experiment sets) it is made very clear that doing multiple waves of heuristics and metaheuristics is advantageous. This might seem trivial but is not easily implemented if the algorithms are not designed to work in combination with one another. Experiment set four did not show any major benefit

to swapping representations throughout the search process.

One of the interesting observations made throughout the analysis is that the f -series and acin problem instances appear to have much more chaotic and misleading fitness landscapes compared to the others. This conclusion was formed based on how much more difficult it was for the studied algorithms to find higher quality solutions for these instances.

The results seen undoubtedly show the effectiveness of the RRGAs variations in combination with different representations, metaheuristics techniques, and heuristics. Furthermore, because of this displayed success one could reason that this DNA fragment assembly problem is a very reasonable approach to assembling DNA reads to produce contigs.

7.7 Future Work

Many things could be considered in future research.

Some of the general ideas that could be implemented to many of the problems studied would be to apply more combinations of the algorithms studied on some problems to others, for example, applying RRGAs+RS to DNA error correction. One could also combine more of the metaheuristic techniques; for example, instead of just combining Recentering-Restarting and Ring Species, maybe try RR+RS+IM. In every instance of heuristics being used only the direct representation was used. It would be interesting to see the effect of using an indirect representation with these heuristics.

Possible future work for the specific problems studied can be seen in their respective subsequent subsections.

Travelling Salesman Problem: Small Problem Instances

One of the areas in which the small TSP instances could be expanded is the inclusion of a more thorough parameter sweep, however the effect of this may be minimal as other results seen suggest that the parameters have minimal implications.

More seeds could be used, for example 2-Opt, but this might produce the optimal solutions for these small instances. To counter this larger sized problems could be included, for example, 22, 24, 26, 28, and 30 city problems.

More generations could be included to see how this affects the quality of the results of the basic GA compared to the RRGAs variations.

Bin Packing Problem

The most obvious addition to the bin packing problem would be to include more problems and study whether the same trends can be extended to further solidify the conclusions.

Including more opportunity for more restarts would also be interesting. It was observed that sometimes more restarts were beneficial and sometimes it had no benefit. By extending the range of restarts it would allow for a larger and more rigorous analysis of this observation.

Graph Colouring Problem

The same things that could be done to expand the BPP could be implemented for the vertex colouring variation of the graph colouring problem: include more problem instances and increase the range of restarts allowed.

Including problem instances that have known optima would help determine how well the algorithms are actually performing. Unfortunately it was found that in most of the instances which were studied in preliminary tests were too easy when the optimal was known. Finding problems which are challenging enough but do have known optima would be key.

Having a larger range of restarts might further show the benefit of restarts and recentres in removing the search from local optima.

Travelling Salesman Problem: Large Problem Instances

Finding and using problem instances for which LKH cannot obtain the optimal would be beneficial as it would demonstrate the need for metaheuristics on this type of problem. This would also allow for using LKH as the initial seed.

Doing a more comprehensive comparison of these results to the results made available online on the DIMACS TSP implementation's results page [2] would be useful as it would show just how competitive the RRGAs are.

DNA Error Correction

Future work for DNA error correction includes the study of larger codes as current results only demonstrate the effectiveness of this approach for $(12, 55, 7)_4$ and $(12, 60, 7)_4$ codes. These codes allow for demonstrating the effectiveness of this algorithm but real world applications could include a much larger number of words.

The indirect transposition representation and its ability to perform well with fuzzy analysis should be further studied. This could include larger codes and codes with a larger minimum distance, i.e. capable of correcting more errors.

It would be interesting to explore the direct classification (single classification machines) using a direct representation on SEMs with a higher number of states. SEMs with 18 states were implemented and produced significant results. By increasing the number of states one could determine if the trend of SEMs with a higher number of states producing better results with the direct analysis continues.

DNA Fragment Assembly

Future work derived from this study of DNA fragment assembly could be to further study the system parameters which are particular to the Island Model and Ring Species variations of the algorithms. This would be noteworthy as they were not fully explored and it is expected that this could produce even better results.

Because of the substantial improvements seen when combining the IM and RS with the RRGGA it would be interesting to explore the idea of combining more variations. An example of this would be to combining RRGGA with Ring Species and Island Model all in one implementation. It would also be interesting to try adding the restarting-recentering idea to other successful DNA fragment assembly algorithms.

In the fourth experiment set the representations were swapped between waves of heuristics and metaheuristics. Instead of switching the representations the actual algorithms could be switched, for example, RRGGA+RS implemented for the first wave of metaheuristics then converted to RRGGA+IM for the second wave.

Additional large, real world problem instances should be analyzed thoroughly enough to produce significant results. Unfortunately this is a very time consuming process as these real world problems are substantially larger than the studied benchmarks. To the best of our knowledge the largest instance currently available for study in the convenient format for the DNA fragment assembly problem is over 2,000,000 fragments and is available at [4]. The creation of these large real world problem instances is discussed in [102].

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Appendix A

Tables

A.1 Travelling Salesman Problem: Small Problem Instances

Set of System Parameters Achieving Best								
Instance	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
0	0, 1, 2, 3, 4	1, 2	3, 4	0, 1	2, 4	1, 4	1, 2, 4	2, 3, 4
1	0, 1, 2, 3, 4	0, 1, 2	2, 4	0, 4	1, 4	1, 2, 4	1, 2, 4	1, 4
2	0, 1, 2, 3, 4		1, 2, 4	2, 4	0, 2, 3, 4	3	1, 3, 4	0, 2, 3, 4
3	0, 1, 2, 3, 4	4	4	3	4	4	4	4
4	0, 1, 2, 3, 4	0, 3, 4	0, 2, 4	4	0, 2, 3, 4	0, 1, 3, 4	0, 1, 3, 4	0, 2, 3, 4
5	0, 1, 2, 3, 4	1	4	4	0, 1, 2, 4	0, 1, 4	0, 1, 4	0, 1, 2, 4
6	0, 1, 2, 3, 4	4	2, 3, 4	0, 1, 3, 4	1, 2, 3, 4	0, 1	0, 1	1, 2, 3, 4
7	0, 1, 2, 3, 4	2, 3	2, 4	4	2, 4	0, 4	3	0, 2, 4
8	0, 1, 2, 3, 4		0, 4	3, 4	0, 2, 4	0, 2	0, 2	0, 2, 4
9	0, 1, 2, 3, 4	0, 2, 3	2, 3, 4	0, 4	0, 1, 2, 4	0, 2, 3	0, 3, 4	0, 2, 3, 4
10	0, 1, 2, 3, 4	1	0, 1, 3, 4	0, 2, 3, 4	0, 2, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 2, 4
11	0, 1, 2, 3, 4	1, 2, 3	0, 2, 4	0, 3, 4	2, 3, 4	1	3	2, 4
12	0, 1, 2, 3, 4	0, 3, 4	0, 1, 2, 4	0, 1, 3	1, 2, 4	0, 2, 4	2, 4	0, 2, 4
13	0, 1, 2, 3, 4	0, 3	0, 2, 3, 4	0, 3	0, 2, 3, 4	4	2, 4	0, 2, 4
14	0, 1, 2, 3, 4	0, 1, 2, 3	0, 1, 4	0, 2, 3, 4	3, 4	0, 3	0, 3	3, 4
15	0, 1, 2, 3, 4	2	2, 4		0, 2, 3, 4			0, 2, 3, 4
16	0, 1, 2, 3, 4	0	4	0, 1, 3	0, 2, 4	1, 3, 4	0, 1, 2	0, 1, 2, 4
17	0, 1, 2, 3, 4		0, 1, 2, 4	0, 1, 4	0, 2, 4	1, 2, 3, 4	1, 2, 3, 4	0, 2, 4
18	0, 1, 2, 3, 4	3	4	0, 3, 4	4	0, 3, 4	0, 1, 2, 3, 4	2, 3, 4
19	0, 1, 2, 3, 4		0, 1, 2, 4	0, 1, 2, 4	3, 4	0, 3, 4	0, 3, 4	3, 4
20	0, 1, 2, 3, 4		2, 4		2, 4			2, 4
21	0, 1, 2, 3, 4	0, 1, 3	1, 4		0, 2, 4	1	1	0, 2, 4
22	0, 2, 3, 4		4	4	1, 2, 4	0		2
23	0, 1, 2, 3, 4		0, 1, 2, 3, 4	0, 4	0, 2, 4	1, 3, 4	3	2, 3, 4
24	0, 1, 2, 3, 4		0, 2, 3, 4	4	3, 4			3, 4
25	0, 1, 2, 3, 4	3	1, 2, 4	1, 2, 3, 4	0, 1, 2, 3, 4	1, 3, 4	1, 3, 4	0, 1, 2, 3, 4
26	0, 1, 2, 3, 4	2, 3	0, 1, 2, 4	0, 3, 4	2, 3, 4	0, 2, 3	0, 2, 3, 4	0, 1, 2, 4
27	0, 1, 2, 3, 4	1	0, 1, 4		0, 1, 2, 3, 4	1, 2, 4	1, 2, 4	0, 1, 2, 3, 4
28	0, 1, 2, 3, 4	1	0, 4		1, 3, 4			1, 3, 4
29	0, 1, 2, 3, 4	3	2, 3, 4	2	4			4
30	0, 1, 2, 3, 4	0, 3	4	1, 3	2, 3, 4			2, 3, 4
31	0, 1, 2, 3, 4	3	4	1, 4	0, 2, 3, 4	4	4	4
32	0, 1, 2, 3, 4		0, 2, 3, 4	2, 4	1, 4	0, 3	0, 3	1, 4
33	0, 1, 2, 3, 4	1	0, 1, 2, 3, 4	1, 2, 4	0, 2, 4	1	1	0, 2, 4
34	0, 1, 2, 3, 4		4		2, 4	3	3	2, 4
35	0, 1, 2, 3, 4		0, 1, 4	3	1, 2, 4	0, 4	0	0, 4
36	0, 1, 2, 3, 4	0, 3	2, 4		4			
37	0, 1, 2, 3, 4		1, 4	0, 2, 3	0, 1, 2, 4	1, 3, 4	1, 3, 4	0, 1, 2, 4
38	0, 1, 2, 3, 4	3	4	4	0, 2, 4	4	1, 3, 4	1, 2, 4
39	0, 1, 2, 3, 4	0, 4	0, 2, 4		2, 3, 4	4	1, 4	0, 1, 2, 4
40	0, 1, 2, 3, 4		2, 3, 4	0, 4	0, 1, 2, 4	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 4
41	0, 1, 2, 3, 4	3	0, 2, 3, 4		1, 4	0, 2, 3	0, 2, 3	1, 4
42	0, 1, 2, 3, 4	0	0, 3, 4	2, 4	2, 3, 4	0, 4	2, 4	1, 2, 3, 4
43	0, 3, 4	1	0, 4	0	1, 4	4	3	4
44	0, 1, 2, 3, 4	3	0, 2, 4	1, 3	2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	2, 3, 4
45	1, 2, 3, 4		2, 4	0, 4	0, 4	3	3	0, 4
46	0, 1, 2, 3, 4		2, 4	0, 1, 3, 4	4	0, 3	2, 4	0, 1, 4
47	0, 1, 2, 3, 4	3	0, 2, 4	3, 4	2, 4	3	3	2
48	0, 1, 2, 3, 4	0, 1, 3, 4	2, 4	0, 1, 4	2, 4	0, 1, 2, 3, 4	0, 3, 4	1, 2, 3, 4
49	0, 1, 2, 3, 4	0, 2, 3, 4	0, 1, 2, 4	0, 1, 3, 4	0, 2, 4	0, 1, 3, 4	0, 1, 3, 4	0, 2, 4

Table A.1: Summary of Results on Instances 0 - 49 for Cities of Size 12

Instance	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
50	0, 1, 2, 3, 4	3, 4	0, 2, 3, 4	0, 4	0, 2, 4	3	3	0, 2, 4
51	0, 1, 2, 3, 4		2, 3, 4	1, 4	3, 4			3, 4
52	0, 1, 2, 3, 4	0, 2	3, 4		4	2	2, 4	0, 2
53	0, 1, 2, 3, 4	0	3, 4		0, 2, 3, 4	2, 3, 4	2, 3, 4	0, 2, 3, 4
54	0, 1, 2, 3, 4	1, 3	0, 3, 4	0, 3	4	4	4	4
55	0, 1, 2, 3, 4	4	4	0, 2, 4	0, 2, 4	1, 3, 4	1, 3, 4	0, 2, 4
56	0, 1, 2, 3, 4		0, 2, 4	2, 4	2, 3, 4	1	1	2, 3, 4
57	0, 1, 2, 3, 4	0	4		1, 2, 4			2, 4
58	0, 1, 2, 3, 4	3, 4	0, 1, 2, 4	3	1, 2, 4	1	1	1, 2, 4
59	0, 1, 2, 3, 4	0, 1, 3	0, 2, 4	0	0, 1, 4			0, 1, 4
60	0, 1, 2, 3, 4	1, 3, 4	2, 4	0	1, 2, 4	0, 3, 4	0, 3, 4	1, 2, 4
61	0, 1, 2, 3, 4	2	1, 2, 4	0, 3	1, 3, 4	0, 1	0, 1	1, 3, 4
62	0, 1, 2, 3, 4	2	0, 2, 4	4	1, 2, 4	0, 1, 4	0, 1, 4	1, 2, 4
63	0, 1, 2, 3, 4	2, 3	1, 2, 4	0, 1, 3, 4	3	0, 2, 3		1, 2, 4
64	0, 1, 2, 3, 4	0, 1, 3, 4	0, 1, 2, 3, 4	0, 2, 4	0, 1, 2, 4	3, 4	3, 4	0, 1, 2, 4
65	0, 1, 2, 3	1	1, 4	3	0, 3, 4			0, 3, 4
66	0, 1, 2, 3, 4		4		0, 1, 4	2	2	0, 1, 4
67	0, 1, 2, 3, 4	0, 1	0, 4	4	2, 3, 4	0	0	2, 3, 4
68	0, 1, 2, 3, 4	0	0, 2		4			4
69	0, 1, 2, 3, 4	4	0, 1, 3, 4	0, 1, 3, 4	0, 4	0, 1, 2		0, 2, 4
70	0, 1, 2, 3, 4	0, 4	1, 3, 4	1, 4	2, 4	0, 1, 2	0, 1, 2	2, 4
71	0, 1, 2, 3, 4	0, 1	2, 4	0, 2, 3	0, 1, 2, 3, 4	2, 4	2, 4	0, 1, 2, 3, 4
72	0, 1, 2, 3, 4		4	0, 2	0, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	0, 2, 3, 4
73	0, 1, 2, 3, 4	0, 3	2, 3, 4	1	2, 3, 4	1, 2	1, 2	2, 3
74	0, 1, 2, 3, 4	1, 3	2, 3, 4	0, 3	1, 2, 3, 4	3, 4	3, 4	1, 2, 3, 4
75	0, 1, 2, 3, 4		0, 4	2	0, 1, 2, 4	0, 3, 4	3	2, 4
76	0, 1, 2, 3, 4	3, 4	2, 4	0	0, 3, 4	0	0	0, 3, 4
77	0, 1, 2, 3, 4	0, 1	1, 2, 3, 4	4	0, 2, 4			0, 2, 4
78	0, 1, 2, 3, 4	2, 4	1, 2, 4	0, 2, 3	0, 1, 2, 3, 4	1, 2, 3	1, 2, 3	0, 1, 2, 3, 4
79	0, 1, 2, 3, 4	2, 3	1, 2, 4	2, 3	0, 1, 2, 4	0, 2, 3, 4	0, 2, 3, 4	0, 1, 2, 4
80	0, 1, 2, 3, 4		0, 2, 4		0, 2, 3, 4		4	0, 1, 2, 4
81	0, 1, 2, 3, 4	0, 3	1, 2, 4	0, 4	4	2	2	4
82	0, 1, 2, 3, 4	1	2, 4	0, 1, 3	2, 4	3	3	2, 4
83	0, 1, 2, 3, 4	3, 4	0, 2, 4	3	3, 4			3, 4
84	0, 1, 2, 3, 4		0, 2, 4	0, 2, 3, 4	0, 2, 4			0, 2, 4
85	0, 1, 2, 3, 4	0, 1, 2, 3	0, 2, 3, 4	2, 3	0, 3, 4			0, 3, 4
86	0, 1, 2, 3, 4	2, 3	4	0	0, 3, 4	2	2	0, 3, 4
87	0, 1, 2, 3, 4	3	4	0, 2	0, 1, 2, 4	2	2	0, 1, 2, 4
88	0, 1, 2, 3, 4	1, 3	0, 2, 4	0, 3	2, 3, 4		0, 4	4
89	0, 1, 2, 3, 4	0	0, 2, 4	2	2, 4			2, 4
90	0, 1, 2, 3, 4		0, 2, 4	3	4	0, 1	0, 1	4
91	0, 1, 2, 3, 4	2, 4	1, 3, 4	2, 4	1, 2, 4	0	0	1, 2, 4
92	0, 1, 2, 3, 4	3	2, 4	0	0, 3, 4			0, 3
93	0, 1, 2, 3, 4	1, 2, 3	0, 1, 4	0, 4	4	1, 4	1, 4	4
94	0, 1, 2, 3, 4		0, 1, 4	0, 1, 4	4	0	0	4
95	0, 1, 2, 3, 4	3	2, 4	0, 3	0, 1, 2, 3, 4		1, 3	0, 1, 2, 4
96	0, 1, 2, 3, 4	1	0, 2, 3, 4	0, 4	0, 2, 3, 4	4	4	0, 2, 3, 4
97	0, 1, 2, 3, 4	3	0, 1, 2, 3, 4	2, 4	2, 4	3, 4	3, 4	2, 4
98	0, 1, 2, 3, 4	0, 2	0, 1, 2, 3, 4	2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 4	2, 4
99	0, 1, 2, 3, 4	1	2, 4	0, 2, 4	2, 3, 4	0, 2, 3	3	2, 3, 4

Table A.2: Summary of Results on Instances 50 - 99 for Cities of Size 12

Set of System Parameters Achieving Best								
Instance	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
0	1, 2, 3, 4		4					4
1	1, 2, 3, 4		4		4			
2	0, 1, 2, 3, 4		4		4			4
3	0, 1, 2, 3, 4							
4	0, 1, 2, 3, 4		4	4	4			4
5	1, 2, 3	1	4		4			4
6	1, 2, 3, 4		4					
7	0, 1, 3, 4				4			4
8	0, 1, 2, 3		4		4			4
9	0, 1, 2, 3, 4		4		3, 4	1	1	3, 4
10	0, 2, 3, 4		4	3				4
11	0, 1, 2, 3		4					4
12	1, 3, 4		3		4			4
13	0, 1, 2, 3, 4		2		4			4
14	0, 1, 2, 3, 4		4	3	4	1		2, 4
15	0, 1, 2, 3, 4		4	3, 4	4		0	4
16	0, 1, 2, 3		4		4			4
17	0, 1, 2, 3, 4	1	4		4			
18	0, 1, 2, 3							
19	0, 1, 2, 3, 4		4		4			4
20	0, 1, 2, 3				4			4
21	0, 1, 2, 3, 4		4		4			4
22	0, 1, 3		4	3	4			
23	0, 1, 3, 4	4	4	4				4
24	0, 1, 3, 4		0, 2, 4		4			4
25	0, 1, 2, 3, 4		4					4
26	0, 1, 2, 3		2, 4		4			4
27	0, 1, 2, 3, 4		4		4	3		2, 4
28	0, 1, 2, 3, 4		4		2			4
29	0, 1, 3, 4	0	4		4			4
30	0, 1, 2, 3		4	1	4		1, 4	4
31	0, 1, 2, 3, 4		4	0, 3	4			4
32	0, 1, 2, 3, 4		4	0		2	2	4
33	0, 1, 2, 3, 4		4		4			4
34	0, 1, 2, 3, 4		4		4			4
35	0, 1, 3, 4	3	4		4			4
36	0, 3, 4				4			
37	0, 1, 2, 3, 4		4		4			
38	0, 3, 4			1	3		0	
39	0, 1, 2, 3, 4		1, 4					
40	0, 1, 2, 3, 4							
41	0, 1, 2, 3, 4	4			2			2
42	0, 1, 2, 3, 4		4	4	4			4
43	0, 1, 2, 3, 4		2, 4		0, 4			0
44	0, 1, 2, 3, 4		4		4	0, 1	0, 1	4
45	0, 2, 3, 4		4		2, 4			2, 4
46	0, 1, 2, 3, 4		4		4			4
47	0, 1, 2, 3, 4		4	4	4			4
48	0, 1, 2, 3, 4		4		4			4
49	0, 1, 2, 3, 4		4		4			4

Table A.3: Summary of Results on Instances 0 - 49 for Cities of Size 14

Set of System Parameters Achieving Best								
Instance	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
50	0, 1, 2, 3, 4		4					4
51	2, 3				4		0	4
52	0, 4				4			
53	0, 1, 2, 3, 4							
54	0, 1, 2, 3, 4	1, 3	4					4
55	0, 1, 2, 3, 4	1	4		2, 4			2, 4
56	0, 1, 2, 3, 4				4			
57	0, 3				4			4
58	0, 1, 2, 3, 4	4	4					4
59	0, 1, 2, 3, 4		4		4	1		4
60	0, 1, 2, 3, 4		4					4
61	0, 1, 2, 3, 4				4			2, 4
62	0, 1, 2, 3, 4		4		0, 4		3	4
63	0, 1, 3, 4		4					
64	0, 1, 2, 3, 4		4	1	1, 4			4
65	0, 1, 2, 3, 4		2, 4		0, 4	2, 4	2, 4	0, 4
66	0, 1, 2, 3, 4		4	4	4			4
67	0, 1, 2, 3				4		1	
68	0, 1, 2, 3, 4		4		4			4
69	0, 1, 3, 4		4	1				4
70	0, 1, 2, 3, 4		4		4			4
71	0, 1, 2, 3, 4		4		2, 4			4
72	0, 1, 2, 3, 4		4	3	4	1	1	4
73	0, 2, 3, 4	3			4	1	1	4
74	0, 1, 2, 3, 4		4		4	4	3	4
75	0, 1, 2, 3, 4		4		4			4
76	0, 1, 2, 3, 4		4		2, 4			2, 4
77	0, 1, 2, 3, 4		4		4		4	0, 4
78	0, 1, 2, 3, 4	3	4		4			4
79	1, 2, 3, 4				4			4
80	0, 1, 2, 3, 4		0, 4					
81	0, 1, 2, 3, 4		4		4	2	2	4
82	0, 1, 2, 3, 4		4					
83	0, 1, 2, 3, 4		4		4			4
84	0, 1, 3, 4		4	0	4			2, 4
85	0, 1, 2, 3, 4		4		4		1, 3	2, 4
86	0, 1, 3, 4		4	3				4
87	0, 1, 2, 3, 4		4		4			4
88	0, 2, 3, 4		4					4
89	0, 1, 2, 3, 4				4			
90	0, 1, 3, 4	2	4	3	2	0	0	2
91			4					
92	0, 3		4					4
93	0, 1, 2, 3, 4	4	4		4			
94	0, 1, 2, 3, 4		4	4	4	0, 2	0, 2	4
95	0, 1, 2, 3		2	1	4			
96	1, 2, 3		4					
97	0, 1, 2, 3		3, 4		0			0, 4
98	0, 2, 3, 4		4		4			4
99	0, 1, 2, 3, 4		4	4	4			4

Table A.4: Summary of Results on Instances 50 - 99 for Cities of Size 14

Set of System Parameters Achieving Best								
Instance	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
0	0, 1, 3, 4							
1	1, 3							
2	3				4			4
3	1, 2							
4	1, 3, 4		4					
5			4					
6	0, 3, 4		4					4
7	0, 1, 2							
8	1							
9	2							4
10	0, 1, 2, 3, 4							
11	3							4
12	2							
13	2, 4							4
14	0, 2, 4							
15	3							
16	1, 2, 3, 4							
17	0, 1, 3, 4							
18	0, 2, 4							
19	0, 4		4					
20	0, 1, 2, 3, 4							
21	0, 1, 2, 3, 4		4		4			
22	0, 2, 3							
23	0, 1, 4		4		4			
24	2, 3, 4				4			
25	0, 3		4					4
26					4			4
27	1, 3, 4				4			4
28	0, 2, 3, 4		4			0	0	4
29	0, 1, 3		4					
30	1				4			
31								4
32	3, 4							
33	1							
34	1, 3		4					
35	0, 1, 2, 3, 4							
36	0, 3, 4				4			
37	1, 3			3	4			
38	1, 3				4			
39	2, 3, 4				4			4
40	4							4
41	0, 1, 2, 3, 4							
42	1, 3							4
43	0, 2, 3, 4							
44	0, 1, 4		4					
45	1, 3							
46	0, 2, 3							4
47	0, 1, 4							4
48	0, 3, 4		4		4			4
49	0, 1, 2, 3, 4							

Table A.5: Summary of Results on Instances 0 - 49 for Cities of Size 16

Set of System Parameters Achieving Best								
Instance	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
50	1, 3							
51					4			4
52	2, 3			3				
53	0, 2, 3, 4							
54	2, 3, 4		4					4
55	0, 1, 3		4		4			
56	0							
57	0, 2, 3, 4							
58	0, 1, 3, 4							
59	1, 2, 3		4					
60	4							
61	0, 1, 2, 3, 4		4					
62	0, 1				4			4
63	3, 4							4
64	1, 2							
65	0, 3		4					
66	0, 1, 2							
67	3							
68	0, 1, 4		4					
69	3							
70	0, 2, 3							4
71	1, 2, 3, 4						2	
72	0							
73	0, 4							
74	1, 3, 4							
75	3, 4							
76	0, 1, 3							
77	3	4						
78	1, 2							
79	1, 2, 3, 4				4			4
80	0, 1, 2, 3							
81	0, 1, 3, 4							
82	3, 4							
83	1							
84	1, 3				4			
85	1, 3							
86	3							
87	1, 3							
88	0, 1, 3, 4							4
89	0, 1, 2, 3							
90	0, 1, 2, 3, 4							4
91	0, 1, 2, 3, 4		4					4
92	1, 3							
93	0, 1, 2, 3							4
94	0, 1, 2, 3		4					
95	1, 2, 3, 4		4			1	1	
96	0, 3				4			4
97								
98	0, 1, 3							
99	3							4

Table A.6: Summary of Results on Instances 50 - 99 for Cities of Size 16

Set of System Parameters Achieving Best								
Instance	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
0	0, 1							
1	0				4			
2	2, 3							
3	0							
4	1							
5	3							
6	0, 1, 4							
7	0							
8	3							
9	0							
10								4
11	3							
12	0							
13	3							
14								4
15	3							
16	3							
17	1, 3							
18	1, 2							
19	0							
20	0							
21	0							4
22	3							
23			4					
24					4			
25	1							4
26	0							
27	2, 3							
28	3							
29	0, 3, 4							
30	2							
31	0, 3, 4							
32					4			
33	1							
34	0, 1, 3							
35	3							
36	3							
37	4							
38	3							
39	0							
40	1, 3							
41	1							
42	1, 3							
43	4							
44	0							
45	1							
46	4							
47	3							4
48	3							
49	1, 3							4

Table A.7: Summary of Results on Instances 0 - 49 for Cities of Size 18

Set of System Parameters Achieving Best								
Instance	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
50	1							
51								4
52	0							
53	4							
54	0							
55	3							
56	1, 2, 3							
57	3							
58	1							
59	0							
60	2							
61	0, 1, 4							
62	3							
63	0							
64								4
65	0							
66								4
67			4					
68	0, 3							
69	4							
70	1							
71	3							
72	0							
73	1, 3							
74	4							
75	2							
76	0							
77	0							
78	3							
79								4
80	1							
81	0, 1, 3							
82	1		4					
83	2, 3							
84	1, 4							
85	0							
86	1							
87	3							
88	3							
89					4			
90	1, 3							
91								4
92	2							
93	3							
94	3							
95	3, 4							
96	0, 2, 4							
97	3							
98	2							
99	3							

Table A.8: Summary of Results on Instances 50 - 99 for Cities of Size 18

Set of System Parameters Achieving Best								
Instance	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
0	4							
1	1							
2	2							
3	4							
4	1							
5	3							
6			4					
7	4							
8	3							
9	4							
10	0, 1							
11	0							
12	3							
13			4					
14								4
15	4							
16	0							
17	3							
18	0							
19	0							
20	1							
21	0							
22	1							
23								4
24	0							
25	1							
26	1							
27					4			
28	4							
29	3							
30	1							
31	4							
32	3							
33	1							
34								4
35	1							
36	3							
37	3							
38			4					
39	1							
40	4							
41	4							
42								4
43	1							
44	3							
45	3							
46	2							
47	0							
48	1							
49	4							

Table A.9: Summary of Results on Instances 0 - 49 for Cities of Size 20

Set of System Parameters Achieving Best								
Instance	GA Direct	GA Indirect	RRGA Direct	RRGA Indirect	RRGA Direct NN	RRGA Indirect NN	RRGA Direct MIN	RRGA Indirect MIN
50	3							
51	1							
52	0							
53	4							
54	4							
55	4							
56	0							
57	1							
58	1							
59	0							
60	0							
61	1							
62					4			
63	1							
64	1							
65	0							
66	4							
67	3							
68	0							
69	0							
70								4
71	4							
72	0							
73	4							
74	0							
75			4					
76	1							
77	0							
78	0, 4							
79	0							
80	4							
81	1							
82			4					
83	0							
84	1							
85	4							
86	0							
87	0							
88	1							
89	0							
90	3							
91	1							
92	4							
93	1							
94	3							
95	3							
96								4
97	3							
98	1							
99	1							

Table A.10: Summary of Results on Instances 50 - 99 for Cities of Size 20

A.1.1 Increased Number of Generations

A.2 Bin Packing Problem

A.2.1 u Instance Results

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	415 (4.01)	416.4	0.62	414 (3.76)	415.7	0.6	414 (3.76)	415.3	0.6
			2op	414 (3.76)	415.5	0.57	414 (3.76)	415.17	0.53	414 (3.76)	415.1	0.55
		1	rnd	415 (4.01)	416.4	0.62	413 (3.51)	414.57	0.82	413 (3.51)	414.37	0.61
			2op	414 (3.76)	415.5	0.57	413 (3.51)	414.67	0.66	413 (3.51)	414.43	0.68
	50	0	rnd	414 (3.76)	415.43	0.63	413 (3.51)	414.8	0.66	413 (3.51)	414.77	0.68
			2op	414 (3.76)	414.8	0.61	414 (3.76)	414.8	0.66	414 (3.76)	414.9	0.4
51	20	1	rnd	414 (3.76)	415.43	0.63	413 (3.51)	414.33	0.76	413 (3.51)	414.3	0.6
			2op	414 (3.76)	414.8	0.61	413 (3.51)	414.53	0.63	413 (3.51)	414.23	0.63
		0	rnd	414 (3.76)	415.43	0.73	414 (3.76)	415.43	0.73	414 (3.76)	415.07	0.58
			2op	414 (3.76)	414.97	0.67	414 (3.76)	414.97	0.67	413 (3.51)	414.7	0.65
	50	1	rnd	414 (3.76)	415.43	0.73	414 (3.76)	415.43	0.73	413 (3.51)	414.53	0.63
			2op	414 (3.76)	414.97	0.67	414 (3.76)	414.97	0.67	413 (3.51)	414.2	0.61
		0	rnd	413 (3.51)	414.33	0.61	413 (3.51)	414.33	0.61	413 (3.51)	414.07	0.69
			2op	413 (3.51)	414.33	0.55	413 (3.51)	414.33	0.55	413 (3.51)	414.03	0.61
		1	rnd	413 (3.51)	414.33	0.61	413 (3.51)	414.33	0.61	412 (3.26)	413.77	0.82
			2op	413 (3.51)	414.33	0.55	413 (3.51)	414.33	0.55	413 (3.51)	414.03	0.67

Table A.11: $u1000_0$: BasicRRGA – Perfect Score is 399

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	417 (4.51)	418.37	0.56	416 (4.26)	417.7	0.53	415 (4.01)	416.57	0.57
			2op	415 (4.01)	416.7	0.53	415 (4.01)	416.07	0.52	415 (4.01)	415.6	0.5
		1	rnd	417 (4.51)	418.37	0.56	413 (3.51)	414.63	0.67	413 (3.51)	414.4	0.72
			2op	415 (4.01)	416.7	0.53	413 (3.51)	414.6	0.56	412 (3.26)	414.47	0.78
	50	0	rnd	418 (4.76)	418.37	0.49	417 (4.51)	417.63	0.56	415 (4.01)	416.43	0.57
			2op	416 (4.26)	416.27	0.45	415 (4.01)	415.87	0.57	415 (4.01)	415.43	0.5
51	20	1	rnd	418 (4.76)	418.37	0.49	414 (3.76)	414.67	0.61	413 (3.51)	414.33	0.55
			2op	416 (4.26)	416.27	0.45	414 (3.76)	414.6	0.62	413 (3.51)	414.53	0.73
		0	rnd	417 (4.51)	417.7	0.47	417 (4.51)	417.7	0.47	415 (4.01)	416.4	0.62
			2op	415 (4.01)	415.87	0.43	415 (4.01)	415.87	0.43	414 (3.76)	414.97	0.61
	50	1	rnd	417 (4.51)	417.7	0.47	417 (4.51)	417.7	0.47	413 (3.51)	414.2	0.66
			2op	415 (4.01)	415.87	0.43	415 (4.01)	415.87	0.43	414 (3.76)	414.63	0.49
		0	rnd	417 (4.51)	417.67	0.48	417 (4.51)	417.67	0.48	415 (4.01)	416.17	0.59
			2op	414 (3.76)	415.83	0.53	414 (3.76)	415.83	0.53	414 (3.76)	414.77	0.57
		1	rnd	417 (4.51)	417.67	0.48	417 (4.51)	417.67	0.48	413 (3.51)	414.4	0.62
			2op	414 (3.76)	415.83	0.53	414 (3.76)	415.83	0.53	413 (3.51)	414.27	0.69

Table A.12: $u1000_0$: TransRRGA – Perfect Score is 399

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	423 (4.19)	423.57	0.5	422 (3.94)	423.17	0.65	421 (3.69)	422.73	0.64
			2op	422 (3.94)	422.67	0.55	422 (3.94)	422.5	0.51	421 (3.69)	422.27	0.52
		1	rnd	423 (4.19)	423.57	0.5	420 (3.45)	421.6	0.62	420 (3.45)	421.4	0.62
			2op	422 (3.94)	422.67	0.55	420 (3.45)	421.87	0.73	421 (3.69)	421.83	0.59
	50	0	rnd	421 (3.69)	422.43	0.68	420 (3.45)	422.13	0.73	421 (3.69)	421.8	0.48
			2op	421 (3.69)	422	0.53	421 (3.69)	421.63	0.49	421 (3.69)	421.57	0.5
51	20	1	rnd	421 (3.69)	422.43	0.68	420 (3.45)	421.7	0.7	420 (3.45)	421.4	0.72
			2op	421 (3.69)	422	0.53	420 (3.45)	421.47	0.63	420 (3.45)	421.3	0.65
		0	rnd	422 (3.94)	422.83	0.53	422 (3.94)	422.83	0.53	420 (3.45)	422.27	0.74
			2op	421 (3.69)	422.2	0.61	421 (3.69)	422.2	0.61	421 (3.69)	422	0.59
		1	rnd	422 (3.94)	422.83	0.53	422 (3.94)	422.83	0.53	420 (3.45)	421.37	0.67
			2op	421 (3.69)	422.2	0.61	421 (3.69)	422.2	0.61	421 (3.69)	421.6	0.5
	50	0	rnd	420 (3.45)	421.57	0.63	420 (3.45)	421.57	0.63	420 (3.45)	421.2	0.71
			2op	420 (3.45)	421.13	0.51	420 (3.45)	421.13	0.51	420 (3.45)	420.97	0.49
		1	rnd	420 (3.45)	421.57	0.63	420 (3.45)	421.57	0.63	420 (3.45)	420.97	0.67
			2op	420 (3.45)	421.13	0.51	420 (3.45)	421.13	0.51	419 (3.2)	420.97	0.76

Table A.13: $u1000_01$: BasicRRGA – Perfect Score is 406

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	425 (4.68)	425.3	0.47	424 (4.43)	424.87	0.51	423 (4.19)	423.97	0.41
			2op	423 (4.19)	423.9	0.48	422 (3.94)	423.2	0.48	422 (3.94)	422.57	0.5
		1	rnd	425 (4.68)	425.3	0.47	421 (3.69)	421.63	0.61	421 (3.69)	421.5	0.63
			2op	423 (4.19)	423.9	0.48	420 (3.45)	421.63	0.81	420 (3.45)	421.73	0.64
	50	0	rnd	425 (4.68)	425.37	0.49	424 (4.43)	424.6	0.62	423 (4.19)	423.77	0.43
			2op	423 (4.19)	423.87	0.35	422 (3.94)	423	0.45	421 (3.69)	422.5	0.57
		1	rnd	425 (4.68)	425.37	0.49	420 (3.45)	421.5	0.86	420 (3.45)	421.33	0.61
			2op	423 (4.19)	423.87	0.35	420 (3.45)	421.77	0.73	421 (3.69)	421.87	0.57
51	20	0	rnd	424 (4.43)	424.9	0.31	424 (4.43)	424.9	0.31	423 (4.19)	423.63	0.49
			2op	422 (3.94)	423.27	0.52	422 (3.94)	423.27	0.52	421 (3.69)	422.17	0.59
		1	rnd	424 (4.43)	424.9	0.31	424 (4.43)	424.9	0.31	421 (3.69)	421.57	0.63
			2op	422 (3.94)	423.27	0.52	422 (3.94)	423.27	0.52	420 (3.45)	421.53	0.57
	50	0	rnd	424 (4.43)	424.9	0.31	424 (4.43)	424.9	0.31	422 (3.94)	423.6	0.62
			2op	423 (4.19)	423.17	0.38	423 (4.19)	423.17	0.38	421 (3.69)	422.1	0.66
		1	rnd	424 (4.43)	424.9	0.31	424 (4.43)	424.9	0.31	420 (3.45)	421.13	0.51
			2op	423 (4.19)	423.17	0.38	423 (4.19)	423.17	0.38	420 (3.45)	421.5	0.57

Table A.14: $u1000_01$: TransRRGA – Perfect Score is 406

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	428 (4.14)	429	0.69	427 (3.89)	428.3	0.75	427 (3.89)	427.93	0.58
			2op	426 (3.65)	427.2	0.66	425 (3.41)	427	0.74	426 (3.65)	427.03	0.56
		1	rnd	428 (4.14)	429	0.69	425 (3.41)	427.2	0.71	426 (3.65)	427.23	0.68
			2op	426 (3.65)	427.2	0.66	425 (3.41)	426.27	0.52	425 (3.41)	426.6	0.67
	50	0	rnd	427 (3.89)	428.43	0.57	426 (3.65)	427.6	0.62	426 (3.65)	427.4	0.62
			2op	426 (3.65)	426.93	0.64	426 (3.65)	426.57	0.63	425 (3.41)	426.63	0.56
51	20	1	rnd	427 (3.89)	428.43	0.57	426 (3.65)	427.13	0.68	425 (3.41)	427.13	0.82
			2op	426 (3.65)	426.93	0.64	425 (3.41)	426.3	0.6	425 (3.41)	426.13	0.51
		0	rnd	427 (3.89)	428.37	0.67	427 (3.89)	428.37	0.67	427 (3.89)	428.1	0.66
			2op	425 (3.41)	427	0.79	425 (3.41)	427	0.79	426 (3.65)	426.5	0.57
	50	1	rnd	427 (3.89)	428.37	0.67	427 (3.89)	428.37	0.67	425 (3.41)	426.97	0.72
			2op	425 (3.41)	427	0.79	425 (3.41)	427	0.79	426 (3.65)	426.47	0.51
		0	rnd	426 (3.65)	427.17	0.83	426 (3.65)	427.17	0.83	425 (3.41)	426.83	0.75
			2op	425 (3.41)	426.2	0.66	425 (3.41)	426.2	0.66	425 (3.41)	425.97	0.56
		1	rnd	426 (3.65)	427.17	0.83	426 (3.65)	427.17	0.83	425 (3.41)	426.7	0.65
			2op	425 (3.41)	426.2	0.66	425 (3.41)	426.2	0.66	425 (3.41)	426	0.74

Table A.15: $u1000_02$: BasicRRGA – Perfect Score is 411

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	431 (4.87)	431.7	0.6	430 (4.62)	430.9	0.48	429 (4.38)	429.83	0.53
			2op	428 (4.14)	428.73	0.45	426 (3.65)	428.03	0.67	426 (3.65)	427.17	0.53
		1	rnd	431 (4.87)	431.7	0.6	426 (3.65)	427.43	0.63	426 (3.65)	427.43	0.73
			2op	428 (4.14)	428.73	0.45	425 (3.41)	426.67	0.61	426 (3.65)	426.83	0.59
	50	0	rnd	430 (4.62)	431.57	0.57	429 (4.38)	430.87	0.63	429 (4.38)	429.53	0.51
			2op	428 (4.14)	428.77	0.43	427 (3.89)	428	0.59	426 (3.65)	426.87	0.35
51	20	1	rnd	430 (4.62)	431.57	0.57	426 (3.65)	427.4	0.62	426 (3.65)	427.07	0.52
			2op	428 (4.14)	428.77	0.43	425 (3.41)	426.7	0.65	425 (3.41)	426.47	0.57
		0	rnd	430 (4.62)	431.1	0.4	430 (4.62)	431.1	0.4	429 (4.38)	429.63	0.49
			2op	427 (3.89)	428.2	0.48	427 (3.89)	428.2	0.48	425 (3.41)	426.7	0.6
	50	1	rnd	430 (4.62)	431.1	0.4	430 (4.62)	431.1	0.4	426 (3.65)	427.13	0.63
			2op	427 (3.89)	428.2	0.48	427 (3.89)	428.2	0.48	426 (3.65)	426.43	0.5
		0	rnd	430 (4.62)	430.9	0.55	430 (4.62)	430.9	0.55	428 (4.14)	429.37	0.61
			2op	428 (4.14)	428.37	0.49	428 (4.14)	428.37	0.49	426 (3.65)	426.67	0.55
		1	rnd	430 (4.62)	430.9	0.55	430 (4.62)	430.9	0.55	426 (3.65)	426.77	0.57
			2op	428 (4.14)	428.37	0.49	428 (4.14)	428.37	0.49	425 (3.41)	426.47	0.57

Table A.16: $u1000_02$: TransRRGA – Perfect Score is 411

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	428 (4.14)	429.2	0.81	427 (3.89)	428.8	0.81	427 (3.89)	428.7	0.65
			2op	427 (3.89)	427.97	0.56	427 (3.89)	428	0.59	427 (3.89)	427.9	0.61
		1	rnd	428 (4.14)	429.2	0.81	426 (3.65)	427.43	0.73	426 (3.65)	427.13	0.63
			2op	427 (3.89)	427.97	0.56	426 (3.65)	427.27	0.58	426 (3.65)	427.17	0.53
	50	0	rnd	427 (3.89)	428.27	0.74	426 (3.65)	428.07	0.64	426 (3.65)	427.8	0.66
			2op	427 (3.89)	427.63	0.56	427 (3.89)	427.47	0.51	426 (3.65)	427.57	0.57
51	20	1	rnd	427 (3.89)	428.27	0.74	426 (3.65)	427.37	0.56	426 (3.65)	427.17	0.59
			2op	427 (3.89)	427.63	0.56	426 (3.65)	427.07	0.58	426 (3.65)	427	0.53
		0	rnd	428 (4.14)	428.8	0.81	428 (4.14)	428.8	0.81	426 (3.65)	428.23	0.73
			2op	427 (3.89)	427.67	0.48	427 (3.89)	427.67	0.48	427 (3.89)	427.5	0.51
		1	rnd	428 (4.14)	428.8	0.81	428 (4.14)	428.8	0.81	427 (3.89)	427.4	0.5
			2op	427 (3.89)	427.67	0.48	427 (3.89)	427.67	0.48	426 (3.65)	427	0.53
	50	0	rnd	426 (3.65)	427.4	0.72	426 (3.65)	427.4	0.72	426 (3.65)	427.2	0.61
			2op	425 (3.41)	427.13	0.78	425 (3.41)	427.13	0.78	426 (3.65)	427.03	0.49
		1	rnd	426 (3.65)	427.4	0.72	426 (3.65)	427.4	0.72	426 (3.65)	426.93	0.74
			2op	425 (3.41)	427.13	0.78	425 (3.41)	427.13	0.78	426 (3.65)	426.7	0.47

Table A.17: $u1000_03$: BasicRRGA – Perfect Score is 411

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	432 (5.11)	432.53	0.51	430 (4.62)	431.63	0.61	430 (4.62)	430.83	0.46
			2op	428 (4.14)	429.23	0.63	428 (4.14)	428.7	0.53	428 (4.14)	428.13	0.35
		1	rnd	432 (5.11)	432.53	0.51	427 (3.89)	427.93	0.69	427 (3.89)	427.77	0.68
			2op	428 (4.14)	429.23	0.63	426 (3.65)	427.3	0.65	426 (3.65)	427.17	0.53
	50	0	rnd	432 (5.11)	432.33	0.48	431 (4.87)	431.7	0.6	430 (4.62)	430.37	0.49
			2op	428 (4.14)	429.3	0.53	428 (4.14)	428.37	0.49	427 (3.89)	427.93	0.25
		1	rnd	432 (5.11)	432.33	0.48	426 (3.65)	427.7	0.79	426 (3.65)	427.5	0.73
			2op	428 (4.14)	429.3	0.53	427 (3.89)	427.5	0.57	426 (3.65)	427.1	0.48
51	20	0	rnd	431 (4.87)	431.97	0.41	431 (4.87)	431.97	0.41	429 (4.38)	430.1	0.61
			2op	428 (4.14)	428.47	0.51	428 (4.14)	428.47	0.51	427 (3.89)	427.77	0.43
		1	rnd	431 (4.87)	431.97	0.41	431 (4.87)	431.97	0.41	426 (3.65)	427.57	0.73
			2op	428 (4.14)	428.47	0.51	428 (4.14)	428.47	0.51	426 (3.65)	426.83	0.46
	50	0	rnd	431 (4.87)	431.87	0.35	431 (4.87)	431.87	0.35	429 (4.38)	430.13	0.43
			2op	428 (4.14)	428.5	0.51	428 (4.14)	428.5	0.51	427 (3.89)	427.7	0.47
		1	rnd	431 (4.87)	431.87	0.35	431 (4.87)	431.87	0.35	425 (3.41)	427.47	0.94
			2op	428 (4.14)	428.5	0.51	428 (4.14)	428.5	0.51	426 (3.65)	427.13	0.51

Table A.18: $u1000_03$: TransRRGA – Perfect Score is 411

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	413 (4.03)	414.47	0.63	413 (4.03)	413.9	0.61	413 (4.03)	413.63	0.49
			2op	412 (3.78)	413.3	0.6	412 (3.78)	413.07	0.52	412 (3.78)	412.97	0.49
		1	rnd	413 (4.03)	414.47	0.63	412 (3.78)	413.13	0.68	411 (3.53)	412.93	0.87
			2op	412 (3.78)	413.3	0.6	411 (3.53)	412.57	0.68	411 (3.53)	412.43	0.57
	50	0	rnd	412 (3.78)	413.93	0.78	411 (3.53)	413.1	0.71	411 (3.53)	412.87	0.63
			2op	411 (3.53)	412.97	0.67	411 (3.53)	412.53	0.57	412 (3.78)	412.67	0.48
51	20	1	rnd	412 (3.78)	413.93	0.78	411 (3.53)	412.73	0.69	411 (3.53)	412.77	0.73
			2op	411 (3.53)	412.97	0.67	411 (3.53)	412.4	0.62	411 (3.53)	412.47	0.57
		0	rnd	412 (3.78)	413.97	0.76	412 (3.78)	413.97	0.76	412 (3.78)	413.13	0.68
			2op	412 (3.78)	412.97	0.49	412 (3.78)	412.97	0.49	412 (3.78)	412.67	0.55
		1	rnd	412 (3.78)	413.97	0.76	412 (3.78)	413.97	0.76	412 (3.78)	412.93	0.58
			2op	412 (3.78)	412.97	0.49	412 (3.78)	412.97	0.49	412 (3.78)	412.5	0.57
	50	0	rnd	411 (3.53)	412.9	0.76	411 (3.53)	412.9	0.76	411 (3.53)	412.2	0.61
			2op	411 (3.53)	412.27	0.58	411 (3.53)	412.27	0.58	411 (3.53)	412	0.59
		1	rnd	411 (3.53)	412.9	0.76	411 (3.53)	412.9	0.76	411 (3.53)	412.2	0.71
			2op	411 (3.53)	412.27	0.58	411 (3.53)	412.27	0.58	410 (3.27)	411.97	0.67

Table A.19: $u1000_04$: BasicRRGA – Perfect Score is 397

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	415 (4.53)	416.13	0.63	413 (4.03)	415.03	0.72	413 (4.03)	413.93	0.52
			2op	414 (4.28)	414.63	0.49	412 (3.78)	413.93	0.64	412 (3.78)	413.2	0.61
		1	rnd	415 (4.53)	416.13	0.63	412 (3.78)	413.3	0.75	411 (3.53)	413	0.83
			2op	414 (4.28)	414.63	0.49	412 (3.78)	413.03	0.61	412 (3.78)	412.87	0.43
	50	0	rnd	415 (4.53)	416.4	0.67	414 (4.28)	414.97	0.61	413 (4.03)	413.77	0.5
			2op	414 (4.28)	414.57	0.5	413 (4.03)	413.77	0.57	412 (3.78)	412.83	0.46
51	20	1	rnd	415 (4.53)	416.4	0.67	411 (3.53)	413.1	0.8	412 (3.78)	412.93	0.52
			2op	414 (4.28)	414.57	0.5	412 (3.78)	413.1	0.55	411 (3.53)	412.53	0.57
		0	rnd	414 (4.28)	415.63	0.56	414 (4.28)	415.63	0.56	412 (3.78)	413.47	0.63
			2op	413 (4.03)	414	0.45	413 (4.03)	414	0.45	411 (3.53)	412.67	0.55
		1	rnd	414 (4.28)	415.63	0.56	414 (4.28)	415.63	0.56	411 (3.53)	412.8	0.76
			2op	413 (4.03)	414	0.45	413 (4.03)	414	0.45	412 (3.78)	412.47	0.51
	50	0	rnd	414 (4.28)	415.37	0.56	414 (4.28)	415.37	0.56	413 (4.03)	413.37	0.56
			2op	413 (4.03)	413.83	0.46	413 (4.03)	413.83	0.46	411 (3.53)	412.4	0.56
		1	rnd	414 (4.28)	415.37	0.56	414 (4.28)	415.37	0.56	412 (3.78)	412.73	0.64
			2op	413 (4.03)	413.83	0.46	413 (4.03)	413.83	0.46	412 (3.78)	412.33	0.48

Table A.20: $u1000_04$: TransRRGA – Perfect Score is 397

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	415 (4.01)	416.57	0.68	415 (4.01)	416.07	0.74	415 (4.01)	415.73	0.58
			2op	413 (3.51)	414.53	0.68	413 (3.51)	414.43	0.57	414 (3.76)	414.57	0.5
		1	rnd	415 (4.01)	416.57	0.68	414 (3.76)	415	0.53	414 (3.76)	415.03	0.56
			2op	413 (3.51)	414.53	0.68	412 (3.26)	413.57	0.63	413 (3.51)	413.6	0.5
	50	0	rnd	414 (3.76)	415.87	0.68	414 (3.76)	415.37	0.67	414 (3.76)	415.1	0.66
			2op	413 (3.51)	414.3	0.7	413 (3.51)	414.03	0.61	413 (3.51)	413.97	0.49
51	20	1	rnd	414 (3.76)	415.87	0.68	414 (3.76)	414.77	0.57	414 (3.76)	414.63	0.72
			2op	413 (3.51)	414.3	0.7	413 (3.51)	413.5	0.57	413 (3.51)	413.6	0.5
		0	rnd	414 (3.76)	415.97	0.76	414 (3.76)	415.97	0.76	414 (3.76)	415.53	0.63
			2op	413 (3.51)	414.2	0.61	413 (3.51)	414.2	0.61	413 (3.51)	413.87	0.63
		1	rnd	414 (3.76)	415.97	0.76	414 (3.76)	415.97	0.76	413 (3.51)	414.8	0.71
			2op	413 (3.51)	414.2	0.61	413 (3.51)	414.2	0.61	413 (3.51)	413.6	0.5
	50	0	rnd	413 (3.51)	414.67	0.71	413 (3.51)	414.67	0.71	413 (3.51)	414.4	0.72
			2op	413 (3.51)	413.67	0.66	413 (3.51)	413.67	0.66	412 (3.26)	413.4	0.62
		1	rnd	413 (3.51)	414.67	0.71	413 (3.51)	414.67	0.71	413 (3.51)	414.2	0.55
			2op	413 (3.51)	413.67	0.66	413 (3.51)	413.67	0.66	412 (3.26)	413.37	0.67

Table A.21: $u1000_05$: BasicRRGA – Perfect Score is 399

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	418 (4.76)	418.8	0.48	417 (4.51)	417.8	0.48	416 (4.26)	416.9	0.4
			2op	415 (4.01)	415.63	0.56	415 (4.01)	415.13	0.35	414 (3.76)	414.83	0.38
		1	rnd	418 (4.76)	418.8	0.48	414 (3.76)	415.2	0.61	414 (3.76)	414.83	0.65
			2op	415 (4.01)	415.63	0.56	413 (3.51)	413.4	0.5	413 (3.51)	413.57	0.5
	50	0	rnd	418 (4.76)	418.77	0.43	416 (4.26)	417.67	0.71	415 (4.01)	416.33	0.61
			2op	414 (3.76)	415.57	0.57	414 (3.76)	415.07	0.58	413 (3.51)	414.4	0.62
51	20	1	rnd	418 (4.76)	418.77	0.43	414 (3.76)	414.83	0.59	414 (3.76)	414.7	0.7
			2op	414 (3.76)	415.57	0.57	412 (3.26)	413.3	0.7	413 (3.51)	413.37	0.49
		0	rnd	417 (4.51)	418.17	0.46	417 (4.51)	418.17	0.46	415 (4.01)	416.4	0.67
			2op	414 (3.76)	415	0.37	414 (3.76)	415	0.37	414 (3.76)	414.33	0.48
		1	rnd	417 (4.51)	418.17	0.46	417 (4.51)	418.17	0.46	413 (3.51)	414.7	0.75
			2op	414 (3.76)	415	0.37	414 (3.76)	415	0.37	412 (3.26)	413.17	0.59
	50	0	rnd	417 (4.51)	418.03	0.49	417 (4.51)	418.03	0.49	415 (4.01)	416.1	0.66
			2op	414 (3.76)	414.8	0.48	414 (3.76)	414.8	0.48	413 (3.51)	413.87	0.43
		1	rnd	417 (4.51)	418.03	0.49	417 (4.51)	418.03	0.49	412 (3.26)	414.53	0.78
			2op	414 (3.76)	414.8	0.48	414 (3.76)	414.8	0.48	412 (3.26)	413.1	0.76

Table A.22: $u1000_05$: TransRRGA – Perfect Score is 399

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	410 (3.8)	411.1	0.66	409 (3.54)	410.73	0.74	409 (3.54)	410.27	0.52
			2op	409 (3.54)	409.77	0.5	408 (3.29)	409.47	0.57	409 (3.54)	409.3	0.47
		1	rnd	410 (3.8)	411.1	0.66	408 (3.29)	409.63	0.67	409 (3.54)	409.77	0.57
			2op	409 (3.54)	409.77	0.5	408 (3.29)	408.83	0.53	407 (3.04)	408.87	0.63
	50	0	rnd	410 (3.8)	410.77	0.63	409 (3.54)	410.1	0.66	408 (3.29)	409.63	0.61
			2op	408 (3.29)	409.4	0.67	407 (3.04)	409	0.69	408 (3.29)	408.83	0.46
51	20	1	rnd	410 (3.8)	410.77	0.63	408 (3.29)	409.6	0.62	408 (3.29)	409.2	0.61
			2op	408 (3.29)	409.4	0.67	407 (3.04)	408.77	0.63	407 (3.04)	408.87	0.68
		0	rnd	409 (3.54)	410.67	0.66	409 (3.54)	410.67	0.66	409 (3.54)	410.33	0.66
			2op	408 (3.29)	409.47	0.63	408 (3.29)	409.47	0.63	408 (3.29)	409.1	0.55
	50	1	rnd	409 (3.54)	410.67	0.66	409 (3.54)	410.67	0.66	408 (3.29)	409.4	0.77
			2op	408 (3.29)	409.47	0.63	408 (3.29)	409.47	0.63	408 (3.29)	408.83	0.65
		0	rnd	408 (3.29)	409.6	0.77	408 (3.29)	409.6	0.77	408 (3.29)	409.17	0.59
			2op	408 (3.29)	408.6	0.56	408 (3.29)	408.6	0.56	407 (3.04)	408.53	0.57
		1	rnd	408 (3.29)	409.6	0.77	408 (3.29)	409.6	0.77	408 (3.29)	409.1	0.71
			2op	408 (3.29)	408.6	0.56	408 (3.29)	408.6	0.56	407 (3.04)	408.13	0.57

Table A.23: $u1000_6$: BasicRRGA – Perfect Score is 395

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	412 (4.3)	413.1	0.66	411 (4.05)	412	0.64	410 (3.8)	411	0.45
			2op	410 (3.8)	411.03	0.41	410 (3.8)	410.43	0.5	409 (3.54)	409.77	0.43
		1	rnd	412 (4.3)	413.1	0.66	409 (3.54)	409.9	0.66	409 (3.54)	409.7	0.53
			2op	410 (3.8)	411.03	0.41	408 (3.29)	409.13	0.68	408 (3.29)	408.97	0.56
	50	0	rnd	412 (4.3)	413	0.45	411 (4.05)	411.97	0.56	410 (3.8)	410.7	0.53
			2op	410 (3.8)	410.87	0.51	410 (3.8)	410.43	0.5	409 (3.54)	409.33	0.48
51	20	1	rnd	412 (4.3)	413	0.45	409 (3.54)	409.87	0.57	408 (3.29)	409.23	0.57
			2op	410 (3.8)	410.87	0.51	408 (3.29)	408.87	0.63	408 (3.29)	408.83	0.59
		0	rnd	412 (4.3)	412.27	0.45	412 (4.3)	412.27	0.45	410 (3.8)	410.53	0.57
			2op	409 (3.54)	410.37	0.56	409 (3.54)	410.37	0.56	408 (3.29)	409.3	0.53
	50	1	rnd	412 (4.3)	412.27	0.45	412 (4.3)	412.27	0.45	408 (3.29)	409.33	0.76
			2op	409 (3.54)	410.37	0.56	409 (3.54)	410.37	0.56	408 (3.29)	408.87	0.51
		0	rnd	412 (4.3)	412.17	0.38	412 (4.3)	412.17	0.38	410 (3.8)	410.63	0.61
			2op	409 (3.54)	410.47	0.57	409 (3.54)	410.47	0.57	408 (3.29)	409.4	0.56
		1	rnd	412 (4.3)	412.17	0.38	412 (4.3)	412.17	0.38	408 (3.29)	409.37	0.67
			2op	409 (3.54)	410.47	0.57	409 (3.54)	410.47	0.57	408 (3.29)	408.9	0.55

Table A.24: $u1000_6$: TransRRGA – Perfect Score is 395

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	420 (3.96)	421.97	0.81	420 (3.96)	421.13	0.63	420 (3.96)	421.13	0.51
			2op	419 (3.71)	419.87	0.51	419 (3.71)	419.4	0.5	419 (3.71)	419.53	0.51
		1	rnd	420 (3.96)	421.97	0.81	419 (3.71)	420.13	0.78	418 (3.47)	419.7	0.84
			2op	419 (3.71)	419.87	0.51	418 (3.47)	419.1	0.61	418 (3.47)	419.2	0.61
	50	0	rnd	419 (3.71)	421.1	0.84	419 (3.71)	420.63	0.81	419 (3.71)	420.1	0.66
			2op	418 (3.47)	419.43	0.57	418 (3.47)	418.97	0.56	418 (3.47)	419.1	0.55
51	20	1	rnd	419 (3.71)	421.1	0.84	419 (3.71)	419.87	0.68	418 (3.47)	419.43	0.73
			2op	418 (3.47)	419.43	0.57	417 (3.22)	418.77	0.73	418 (3.47)	418.83	0.59
		0	rnd	419 (3.71)	421.13	0.73	419 (3.71)	421.13	0.73	419 (3.71)	420.57	0.63
			2op	418 (3.47)	419.43	0.57	418 (3.47)	419.43	0.57	418 (3.47)	419.2	0.55
	50	1	rnd	419 (3.71)	421.13	0.73	419 (3.71)	421.13	0.73	418 (3.47)	419.7	0.7
			2op	418 (3.47)	419.43	0.57	418 (3.47)	419.43	0.57	418 (3.47)	418.93	0.45
		0	rnd	419 (3.71)	419.9	0.71	419 (3.71)	419.9	0.71	418 (3.47)	419.37	0.67
			2op	417 (3.22)	418.43	0.63	417 (3.22)	418.43	0.63	417 (3.22)	418.3	0.6
		1	rnd	419 (3.71)	419.9	0.71	419 (3.71)	419.9	0.71	418 (3.47)	419.17	0.65
			2op	417 (3.22)	418.43	0.63	417 (3.22)	418.43	0.63	417 (3.22)	418.33	0.71

Table A.25: $u1000_07$: BasicRRGA – Perfect Score is 404

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	423 (4.7)	423.77	0.57	422 (4.46)	422.63	0.56	421 (4.21)	421.67	0.55
			2op	420 (3.96)	420.7	0.47	419 (3.71)	420.1	0.48	419 (3.71)	419.97	0.18
		1	rnd	423 (4.7)	423.77	0.57	419 (3.71)	419.77	0.68	418 (3.47)	419.67	0.66
			2op	420 (3.96)	420.7	0.47	418 (3.47)	419.33	0.66	418 (3.47)	419.17	0.65
	50	0	rnd	423 (4.7)	423.8	0.61	421 (4.21)	422.6	0.62	421 (4.21)	421.8	0.41
			2op	420 (3.96)	420.57	0.5	419 (3.71)	420.1	0.4	419 (3.71)	419.53	0.51
51	20	1	rnd	423 (4.7)	423.8	0.61	418 (3.47)	419.97	0.76	419 (3.71)	419.47	0.57
			2op	420 (3.96)	420.57	0.5	419 (3.71)	419.53	0.51	418 (3.47)	419.27	0.52
		0	rnd	422 (4.46)	423	0.26	422 (4.46)	423	0.26	420 (3.96)	421.47	0.57
			2op	419 (3.71)	420.07	0.45	419 (3.71)	420.07	0.45	419 (3.71)	419.37	0.49
	50	1	rnd	422 (4.46)	423	0.26	422 (4.46)	423	0.26	418 (3.47)	419.7	0.79
			2op	419 (3.71)	420.07	0.45	419 (3.71)	420.07	0.45	418 (3.47)	419.07	0.52
		0	rnd	422 (4.46)	422.9	0.4	422 (4.46)	422.9	0.4	420 (3.96)	421.4	0.67
			2op	419 (3.71)	419.93	0.45	419 (3.71)	419.93	0.45	418 (3.47)	419.1	0.4
		1	rnd	422 (4.46)	422.9	0.4	422 (4.46)	422.9	0.4	418 (3.47)	419.27	0.78
			2op	419 (3.71)	419.93	0.45	419 (3.71)	419.93	0.45	418 (3.47)	419.03	0.41

Table A.26: $u1000_07$: TransRRGA – Perfect Score is 404

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	415 (4.01)	415.63	0.61	414 (3.76)	415	0.64	414 (3.76)	414.83	0.53
			2op	413 (3.51)	414.73	0.69	413 (3.51)	414.53	0.63	413 (3.51)	414.23	0.57
		1	rnd	415 (4.01)	415.63	0.61	413 (3.51)	414.23	0.73	413 (3.51)	414.23	0.63
			2op	413 (3.51)	414.73	0.69	412 (3.26)	413.93	0.78	413 (3.51)	413.67	0.66
	50	0	rnd	413 (3.51)	414.73	0.74	413 (3.51)	414.27	0.74	414 (3.76)	414.27	0.45
			2op	413 (3.51)	414.1	0.66	413 (3.51)	414.23	0.57	413 (3.51)	413.97	0.49
51	20	1	rnd	413 (3.51)	414.73	0.74	413 (3.51)	413.9	0.55	413 (3.51)	413.83	0.53
			2op	413 (3.51)	414.1	0.66	412 (3.26)	413.6	0.77	412 (3.26)	413.43	0.82
		0	rnd	414 (3.76)	414.83	0.65	414 (3.76)	414.83	0.65	413 (3.51)	414.37	0.61
			2op	413 (3.51)	414.3	0.65	413 (3.51)	414.3	0.65	413 (3.51)	413.93	0.58
		1	rnd	414 (3.76)	414.83	0.65	414 (3.76)	414.83	0.65	413 (3.51)	413.8	0.71
			2op	413 (3.51)	414.3	0.65	413 (3.51)	414.3	0.65	412 (3.26)	413.57	0.57
	50	0	rnd	412 (3.26)	413.63	0.61	412 (3.26)	413.63	0.61	413 (3.51)	413.6	0.5
			2op	412 (3.26)	413.47	0.68	412 (3.26)	413.47	0.68	412 (3.26)	413.33	0.66
		1	rnd	412 (3.26)	413.63	0.61	412 (3.26)	413.63	0.61	412 (3.26)	413.3	0.65
			2op	412 (3.26)	413.47	0.68	412 (3.26)	413.47	0.68	411 (3.01)	413.13	0.63

Table A.27: $u1000_08$: BasicRRGA – Perfect Score is 399

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	416 (4.26)	417.2	0.61	415 (4.01)	416.5	0.57	415 (4.01)	415.5	0.51
			2op	416 (4.26)	416.7	0.47	415 (4.01)	416.3	0.65	414 (3.76)	414.9	0.4
		1	rnd	416 (4.26)	417.2	0.61	413 (3.51)	414.53	0.78	413 (3.51)	414.3	0.7
			2op	416 (4.26)	416.7	0.47	413 (3.51)	414.67	1.27	412 (3.26)	413.8	0.85
	50	0	rnd	416 (4.26)	417.23	0.5	415 (4.01)	416.27	0.58	413 (3.51)	415.07	0.52
			2op	416 (4.26)	416.73	0.45	415 (4.01)	416	0.45	414 (3.76)	414.6	0.5
51	20	1	rnd	416 (4.26)	417.23	0.5	413 (3.51)	414.5	0.82	412 (3.26)	414	0.74
			2op	416 (4.26)	416.73	0.45	413 (3.51)	414.27	1.17	412 (3.26)	413.9	0.76
		0	rnd	416 (4.26)	416.63	0.49	416 (4.26)	416.63	0.49	414 (3.76)	415.03	0.49
			2op	415 (4.01)	416.1	0.4	415 (4.01)	416.1	0.4	413 (3.51)	414.43	0.73
		1	rnd	416 (4.26)	416.63	0.49	416 (4.26)	416.63	0.49	413 (3.51)	414.13	0.68
			2op	415 (4.01)	416.1	0.4	415 (4.01)	416.1	0.4	412 (3.26)	413.4	0.67
	50	0	rnd	415 (4.01)	416.37	0.56	415 (4.01)	416.37	0.56	414 (3.76)	414.87	0.57
			2op	415 (4.01)	416.13	0.43	415 (4.01)	416.13	0.43	413 (3.51)	414.4	0.67
		1	rnd	415 (4.01)	416.37	0.56	415 (4.01)	416.37	0.56	413 (3.51)	413.77	0.57
			2op	415 (4.01)	416.13	0.43	415 (4.01)	416.13	0.43	412 (3.26)	413.63	0.81

Table A.28: $u1000_08$: TransRRGA – Perfect Score is 399

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	413 (4.03)	414.63	0.72	413 (4.03)	414.07	0.52	413 (4.03)	413.77	0.57
			2op	412 (3.78)	413.87	0.82	412 (3.78)	413.4	0.62	412 (3.78)	413.5	0.68
		1	rnd	413 (4.03)	414.63	0.72	412 (3.78)	413.2	0.66	412 (3.78)	412.83	0.53
			2op	412 (3.78)	413.87	0.82	411 (3.53)	412.2	0.66	411 (3.53)	412	0.64
	50	0	rnd	412 (3.78)	413.87	0.73	412 (3.78)	413.63	0.67	412 (3.78)	413.1	0.61
			2op	412 (3.78)	413.1	0.66	412 (3.78)	413.1	0.66	412 (3.78)	412.97	0.56
51	20	1	rnd	412 (3.78)	413.87	0.73	411 (3.53)	412.83	0.83	412 (3.78)	412.93	0.74
			2op	412 (3.78)	413.1	0.66	411 (3.53)	412.13	0.51	411 (3.53)	411.83	0.59
		0	rnd	413 (4.03)	414.2	0.48	413 (4.03)	414.2	0.48	413 (4.03)	413.67	0.55
			2op	412 (3.78)	413.13	0.68	412 (3.78)	413.13	0.68	412 (3.78)	413.03	0.76
		1	rnd	413 (4.03)	414.2	0.48	413 (4.03)	414.2	0.48	412 (3.78)	413.07	0.58
			2op	412 (3.78)	413.13	0.68	412 (3.78)	413.13	0.68	411 (3.53)	412	0.64
	50	0	rnd	412 (3.78)	413.33	0.76	412 (3.78)	413.33	0.76	412 (3.78)	412.7	0.6
			2op	411 (3.53)	412.53	0.63	411 (3.53)	412.53	0.63	412 (3.78)	412.2	0.41
		1	rnd	412 (3.78)	413.33	0.76	412 (3.78)	413.33	0.76	411 (3.53)	412.5	0.68
			2op	411 (3.53)	412.53	0.63	411 (3.53)	412.53	0.63	411 (3.53)	411.6	0.5

Table A.29: $u1000_09$: BasicRRGA – Perfect Score is 397

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	414 (4.28)	416	0.79	414 (4.28)	415.17	0.53	414 (4.28)	414.37	0.49
			2op	414 (4.28)	415.33	0.55	413 (4.03)	414.53	0.63	413 (4.03)	413.97	0.56
		1	rnd	414 (4.28)	416	0.79	412 (3.78)	413.1	0.66	412 (3.78)	412.77	0.68
			2op	414 (4.28)	415.33	0.55	411 (3.53)	412.07	0.69	411 (3.53)	412.2	0.66
	50	0	rnd	415 (4.53)	415.87	0.63	414 (4.28)	414.8	0.61	413 (4.03)	414.17	0.46
			2op	414 (4.28)	415.07	0.52	413 (4.03)	414.2	0.55	413 (4.03)	413.63	0.56
51	20	1	rnd	415 (4.53)	415.87	0.63	411 (3.53)	412.83	0.75	412 (3.78)	412.83	0.65
			2op	414 (4.28)	415.07	0.52	410 (3.27)	411.8	0.76	411 (3.53)	412.1	0.61
		0	rnd	414 (4.28)	415.2	0.55	414 (4.28)	415.2	0.55	413 (4.03)	414	0.45
			2op	414 (4.28)	414.5	0.51	414 (4.28)	414.5	0.51	412 (3.78)	412.93	0.45
		1	rnd	414 (4.28)	415.2	0.55	414 (4.28)	415.2	0.55	411 (3.53)	412.7	0.84
			2op	414 (4.28)	414.5	0.51	414 (4.28)	414.5	0.51	411 (3.53)	411.83	0.53
	50	0	rnd	414 (4.28)	415.17	0.65	414 (4.28)	415.17	0.65	413 (4.03)	413.83	0.38
			2op	413 (4.03)	414.33	0.61	413 (4.03)	414.33	0.61	412 (3.78)	412.7	0.47
		1	rnd	414 (4.28)	415.17	0.65	414 (4.28)	415.17	0.65	412 (3.78)	412.67	0.61
			2op	413 (4.03)	414.33	0.61	413 (4.03)	414.33	0.61	410 (3.27)	411.5	0.63

Table A.30: $u1000_09$: TransRRGA – Perfect Score is 397

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	416 (4)	416.4	0.5	415 (3.75)	415.87	0.43	415 (3.75)	415.9	0.55
			2op	415 (3.75)	415.87	0.51	414 (3.5)	415.63	0.56	414 (3.5)	415.43	0.57
		1	rnd	416 (4)	416.4	0.5	414 (3.5)	415.47	0.63	413 (3.25)	415.23	0.77
			2op	415 (3.75)	415.87	0.51	414 (3.5)	415.13	0.57	414 (3.5)	414.93	0.52
	50	0	rnd	415 (3.75)	415.97	0.67	414 (3.5)	415.43	0.68	414 (3.5)	415.17	0.46
			2op	414 (3.5)	415.37	0.61	414 (3.5)	415	0.59	414 (3.5)	414.93	0.45
51	20	1	rnd	415 (3.75)	415.97	0.67	414 (3.5)	415.03	0.61	414 (3.5)	414.83	0.53
			2op	414 (3.5)	415.37	0.61	414 (3.5)	414.67	0.48	414 (3.5)	414.7	0.6
		0	rnd	415 (3.75)	416.2	0.61	415 (3.75)	416.2	0.61	415 (3.75)	415.6	0.5
			2op	414 (3.5)	415.5	0.57	414 (3.5)	415.5	0.57	414 (3.5)	415.07	0.45
	50	1	rnd	415 (3.75)	416.2	0.61	415 (3.75)	416.2	0.61	414 (3.5)	415.13	0.73
			2op	414 (3.5)	415.5	0.57	414 (3.5)	415.5	0.57	414 (3.5)	414.87	0.43
		0	rnd	413 (3.25)	414.87	0.63	413 (3.25)	414.87	0.63	413 (3.25)	414.67	0.66
			2op	413 (3.25)	414.77	0.63	413 (3.25)	414.77	0.63	413 (3.25)	414.4	0.56
		1	rnd	413 (3.25)	414.87	0.63	413 (3.25)	414.87	0.63	413 (3.25)	414.2	0.66
			2op	413 (3.25)	414.77	0.63	413 (3.25)	414.77	0.63	413 (3.25)	414.1	0.66

Table A.31: $u1000_10$: BasicRRGA – Perfect Score is 400

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	417 (4.25)	417.93	0.37	416 (4)	417.2	0.55	416 (4)	416.33	0.48
			2op	416 (4)	416.63	0.56	415 (3.75)	415.97	0.41	415 (3.75)	415.8	0.41
		1	rnd	417 (4.25)	417.93	0.37	414 (3.5)	415.63	0.61	414 (3.5)	415.6	0.81
			2op	416 (4)	416.63	0.56	414 (3.5)	415.27	0.69	414 (3.5)	414.8	0.71
	50	0	rnd	417 (4.25)	417.83	0.38	416 (4)	417.07	0.52	415 (3.75)	416.03	0.49
			2op	416 (4)	416.3	0.47	415 (3.75)	415.93	0.45	415 (3.75)	415.7	0.47
51	20	1	rnd	417 (4.25)	417.83	0.38	415 (3.75)	415.63	0.61	414 (3.5)	415.23	0.57
			2op	416 (4)	416.3	0.47	414 (3.5)	415.37	0.61	414 (3.5)	414.87	0.63
		0	rnd	417 (4.25)	417.47	0.51	417 (4.25)	417.47	0.51	415 (3.75)	416.03	0.49
			2op	416 (4)	416.1	0.31	416 (4)	416.1	0.31	414 (3.5)	415.27	0.64
	50	1	rnd	417 (4.25)	417.47	0.51	417 (4.25)	417.47	0.51	414 (3.5)	415.33	0.84
			2op	416 (4)	416.1	0.31	416 (4)	416.1	0.31	414 (3.5)	414.7	0.65
		0	rnd	417 (4.25)	417.27	0.45	417 (4.25)	417.27	0.45	415 (3.75)	416.03	0.32
			2op	415 (3.75)	415.97	0.32	415 (3.75)	415.97	0.32	414 (3.5)	414.9	0.55
		1	rnd	417 (4.25)	417.27	0.45	417 (4.25)	417.27	0.45	414 (3.5)	415.2	0.71
			2op	415 (3.75)	415.97	0.32	415 (3.75)	415.97	0.32	413 (3.25)	414.87	0.78

Table A.32: $u1000_10$: TransRRGA – Perfect Score is 400

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	418 (4.24)	419.33	0.66	418 (4.24)	418.83	0.53	417 (3.99)	418.33	0.66
			2op	417 (3.99)	418.3	0.7	416 (3.74)	417.83	0.53	417 (3.99)	417.63	0.49
		1	rnd	418 (4.24)	419.33	0.66	417 (3.99)	417.67	0.66	416 (3.74)	417.83	0.79
			2op	417 (3.99)	418.3	0.7	417 (3.99)	417.23	0.43	416 (3.74)	416.93	0.64
	50	0	rnd	417 (3.99)	418.83	0.65	417 (3.99)	417.93	0.52	416 (3.74)	417.73	0.69
			2op	416 (3.74)	417.7	0.75	415 (3.49)	417.17	0.7	416 (3.74)	417.03	0.61
51	20	1	rnd	417 (3.99)	418.83	0.65	416 (3.74)	417.5	0.78	416 (3.74)	417.27	0.74
			2op	416 (3.74)	417.7	0.75	416 (3.74)	416.87	0.57	416 (3.74)	416.73	0.64
		0	rnd	418 (4.24)	418.8	0.61	418 (4.24)	418.8	0.61	417 (3.99)	418.27	0.69
			2op	416 (3.74)	417.63	0.56	416 (3.74)	417.63	0.56	416 (3.74)	417.37	0.61
	50	1	rnd	418 (4.24)	418.8	0.61	418 (4.24)	418.8	0.61	416 (3.74)	417.57	0.68
			2op	416 (3.74)	417.63	0.56	416 (3.74)	417.63	0.56	415 (3.49)	417.03	0.67
		0	rnd	416 (3.74)	417.33	0.71	416 (3.74)	417.33	0.71	416 (3.74)	417.03	0.49
			2op	416 (3.74)	417	0.74	416 (3.74)	417	0.74	415 (3.49)	416.4	0.56
		1	rnd	416 (3.74)	417.33	0.71	416 (3.74)	417.33	0.71	416 (3.74)	417.07	0.58
			2op	416 (3.74)	417	0.74	416 (3.74)	417	0.74	415 (3.49)	416.33	0.66

Table A.33: $u1000_1$: BasicRRGA – Perfect Score is 401

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	420 (4.74)	420.8	0.48	419 (4.49)	420.03	0.49	418 (4.24)	418.9	0.55
			2op	418 (4.24)	419.43	0.68	418 (4.24)	418.87	0.43	417 (3.99)	418.07	0.37
		1	rnd	420 (4.74)	420.8	0.48	417 (3.99)	418.13	0.82	416 (3.74)	417.6	0.67
			2op	418 (4.24)	419.43	0.68	416 (3.74)	417.13	0.68	416 (3.74)	417.1	0.66
	50	0	rnd	420 (4.74)	420.57	0.5	419 (4.49)	420	0.37	418 (4.24)	418.87	0.51
			2op	419 (4.49)	419.53	0.57	418 (4.24)	418.53	0.51	417 (3.99)	417.8	0.41
51	20	1	rnd	420 (4.74)	420.57	0.5	416 (3.74)	417.8	0.89	417 (3.99)	417.67	0.55
			2op	419 (4.49)	419.53	0.57	416 (3.74)	417.23	0.63	416 (3.74)	416.9	0.61
		0	rnd	420 (4.74)	420.3	0.47	420 (4.74)	420.3	0.47	418 (4.24)	418.9	0.48
			2op	418 (4.24)	418.77	0.43	418 (4.24)	418.77	0.43	417 (3.99)	417.6	0.56
	50	1	rnd	420 (4.74)	420.3	0.47	420 (4.74)	420.3	0.47	417 (3.99)	417.7	0.65
			2op	418 (4.24)	418.77	0.43	418 (4.24)	418.77	0.43	416 (3.74)	416.7	0.7
		0	rnd	419 (4.49)	420.13	0.43	419 (4.49)	420.13	0.43	417 (3.99)	418.6	0.56
			2op	418 (4.24)	418.8	0.41	418 (4.24)	418.8	0.41	416 (3.74)	417.37	0.56
		1	rnd	419 (4.49)	420.13	0.43	419 (4.49)	420.13	0.43	416 (3.74)	417.43	0.73
			2op	418 (4.24)	418.8	0.41	418 (4.24)	418.8	0.41	415 (3.49)	416.77	0.82

Table A.34: $u1000_1$: TransRRGA – Perfect Score is 401

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	408 (3.82)	409.8	0.66	408 (3.82)	409.57	0.68	408 (3.82)	408.9	0.66
			2op	407 (3.56)	407.87	0.51	406 (3.31)	407.27	0.52	407 (3.56)	407.67	0.48
		1	rnd	408 (3.82)	409.8	0.66	406 (3.31)	407.57	0.86	406 (3.31)	407.2	0.61
			2op	407 (3.56)	407.87	0.51	406 (3.31)	406.73	0.45	405 (3.05)	406.77	0.5
	50	0	rnd	407 (3.56)	409.1	0.76	408 (3.82)	408.77	0.63	407 (3.56)	408.4	0.56
			2op	407 (3.56)	407.63	0.49	406 (3.31)	407.07	0.58	406 (3.31)	407.3	0.6
51	20	1	rnd	407 (3.56)	409.1	0.76	406 (3.31)	407.43	0.86	406 (3.31)	407.3	0.7
			2op	407 (3.56)	407.63	0.49	405 (3.05)	406.47	0.57	406 (3.31)	406.67	0.55
		0	rnd	408 (3.82)	409.2	0.66	408 (3.82)	409.2	0.66	408 (3.82)	408.8	0.61
			2op	406 (3.31)	407.23	0.73	406 (3.31)	407.23	0.73	406 (3.31)	407.2	0.48
		1	rnd	408 (3.82)	409.2	0.66	408 (3.82)	409.2	0.66	406 (3.31)	407.37	0.72
			2op	406 (3.31)	407.23	0.73	406 (3.31)	407.23	0.73	406 (3.31)	406.67	0.61
	50	0	rnd	407 (3.56)	408.03	0.61	407 (3.56)	408.03	0.61	406 (3.31)	407.77	0.86
			2op	405 (3.05)	406.47	0.57	405 (3.05)	406.47	0.57	406 (3.31)	406.57	0.5
		1	rnd	407 (3.56)	408.03	0.61	407 (3.56)	408.03	0.61	406 (3.31)	407.23	0.77
			2op	405 (3.05)	406.47	0.57	405 (3.05)	406.47	0.57	405 (3.05)	406.17	0.59

Table A.35: $u1000_12$: BasicRRGA – Perfect Score is 393

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	410 (4.33)	411.7	0.65	409 (4.07)	410.63	0.67	409 (4.07)	409.77	0.5
			2op	408 (3.82)	408.5	0.51	407 (3.56)	408.37	0.56	407 (3.56)	407.97	0.32
		1	rnd	410 (4.33)	411.7	0.65	406 (3.31)	407.37	0.67	406 (3.31)	407.33	0.71
			2op	408 (3.82)	408.5	0.51	406 (3.31)	406.97	0.56	406 (3.31)	406.83	0.53
	50	0	rnd	411 (4.58)	411.67	0.55	409 (4.07)	410.7	0.65	409 (4.07)	409.3	0.47
			2op	408 (3.82)	408.5	0.51	407 (3.56)	408.07	0.52	407 (3.56)	407.77	0.43
51	20	1	rnd	411 (4.58)	411.67	0.55	406 (3.31)	407.27	0.74	406 (3.31)	407.27	0.58
			2op	408 (3.82)	408.5	0.51	406 (3.31)	407.03	0.61	406 (3.31)	406.8	0.55
		0	rnd	410 (4.33)	410.97	0.18	410 (4.33)	410.97	0.18	408 (3.82)	409.23	0.68
			2op	408 (3.82)	408	0	408 (3.82)	408	0	406 (3.31)	407.2	0.55
		1	rnd	410 (4.33)	410.97	0.18	410 (4.33)	410.97	0.18	406 (3.31)	407.17	0.65
			2op	408 (3.82)	408	0	408 (3.82)	408	0	405 (3.05)	406.67	0.71
	50	0	rnd	410 (4.33)	410.93	0.45	410 (4.33)	410.93	0.45	408 (3.82)	409	0.53
			2op	407 (3.56)	408	0.26	407 (3.56)	408	0.26	406 (3.31)	407.1	0.61
		1	rnd	410 (4.33)	410.93	0.45	410 (4.33)	410.93	0.45	405 (3.05)	407	0.79
			2op	407 (3.56)	408	0.26	407 (3.56)	408	0.26	406 (3.31)	406.43	0.5

Table A.36: $u1000_12$: TransRRGA – Perfect Score is 393

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	411 (3.79)	412.03	0.49	410 (3.54)	411.53	0.63	411 (3.79)	411.47	0.51
			2op	410 (3.54)	410.6	0.56	410 (3.54)	410.33	0.48	410 (3.54)	410.7	0.47
		1	rnd	411 (3.79)	412.03	0.49	410 (3.54)	411.33	0.66	410 (3.54)	410.83	0.53
			2op	410 (3.54)	410.6	0.56	409 (3.28)	410	0.53	409 (3.28)	410.03	0.67
	50	0	rnd	410 (3.54)	411.4	0.67	410 (3.54)	410.93	0.52	410 (3.54)	410.87	0.51
			2op	409 (3.28)	410.2	0.55	409 (3.28)	410.03	0.49	409 (3.28)	410.1	0.48
51	20	1	rnd	410 (3.54)	411.4	0.67	409 (3.28)	410.8	0.71	409 (3.28)	410.6	0.62
			2op	409 (3.28)	410.2	0.55	409 (3.28)	409.97	0.41	409 (3.28)	409.93	0.52
		0	rnd	411 (3.79)	411.6	0.56	411 (3.79)	411.6	0.56	410 (3.54)	410.87	0.57
			2op	409 (3.28)	410.07	0.64	409 (3.28)	410.07	0.64	409 (3.28)	410.03	0.49
	50	1	rnd	411 (3.79)	411.6	0.56	411 (3.79)	411.6	0.56	410 (3.54)	410.63	0.61
			2op	409 (3.28)	410.07	0.64	409 (3.28)	410.07	0.64	408 (3.03)	409.73	0.64
		0	rnd	409 (3.28)	410.83	0.75	409 (3.28)	410.83	0.75	409 (3.28)	410.33	0.55
			2op	409 (3.28)	409.8	0.48	409 (3.28)	409.8	0.48	409 (3.28)	409.67	0.48
		1	rnd	409 (3.28)	410.83	0.75	409 (3.28)	410.83	0.75	409 (3.28)	410.27	0.64
			2op	409 (3.28)	409.8	0.48	409 (3.28)	409.8	0.48	408 (3.03)	409.37	0.61

Table A.37: $u1000_13$: BasicRRGA – Perfect Score is 396

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	413 (4.29)	413.47	0.51	412 (4.04)	412.73	0.45	411 (3.79)	411.67	0.61
			2op	410 (3.54)	411	0.37	410 (3.54)	410.63	0.49	410 (3.54)	410.43	0.5
		1	rnd	413 (4.29)	413.47	0.51	410 (3.54)	411.17	0.59	409 (3.28)	410.93	0.69
			2op	410 (3.54)	411	0.37	409 (3.28)	410	0.45	409 (3.28)	410.07	0.52
	50	0	rnd	413 (4.29)	413.67	0.48	411 (3.79)	412.63	0.56	411 (3.79)	411.67	0.48
			2op	410 (3.54)	410.9	0.31	410 (3.54)	410.5	0.57	410 (3.54)	410.3	0.47
51	20	1	rnd	413 (4.29)	413.67	0.48	410 (3.54)	411.2	0.66	410 (3.54)	411.03	0.49
			2op	410 (3.54)	410.9	0.31	409 (3.28)	410.17	0.53	409 (3.28)	409.77	0.5
		0	rnd	412 (4.04)	413.03	0.32	412 (4.04)	413.03	0.32	410 (3.54)	411.3	0.6
			2op	410 (3.54)	410.73	0.45	410 (3.54)	410.73	0.45	408 (3.03)	409.67	0.55
	50	1	rnd	412 (4.04)	413.03	0.32	412 (4.04)	413.03	0.32	409 (3.28)	410.8	0.66
			2op	410 (3.54)	410.73	0.45	410 (3.54)	410.73	0.45	409 (3.28)	409.67	0.48
		0	rnd	412 (4.04)	412.77	0.43	412 (4.04)	412.77	0.43	410 (3.54)	411.23	0.57
			2op	410 (3.54)	410.7	0.47	410 (3.54)	410.7	0.47	409 (3.28)	409.77	0.5
		1	rnd	412 (4.04)	412.77	0.43	412 (4.04)	412.77	0.43	410 (3.54)	410.87	0.35
			2op	410 (3.54)	410.7	0.47	410 (3.54)	410.7	0.47	408 (3.03)	409.53	0.57

Table A.38: $u1000_13$: TransRRGA – Perfect Score is 396

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	410 (4.06)	412.1	0.66	409 (3.81)	411.5	0.73	410 (4.06)	411.23	0.63
			2op	411 (4.31)	411.57	0.5	410 (4.06)	410.9	0.61	410 (4.06)	410.83	0.65
		1	rnd	410 (4.06)	412.1	0.66	410 (4.06)	410.93	0.69	409 (3.81)	410.7	0.79
			2op	411 (4.31)	411.57	0.5	409 (3.81)	410.27	0.74	408 (3.55)	410	0.74
	50	0	rnd	410 (4.06)	411.3	0.84	409 (3.81)	410.67	0.66	409 (3.81)	410.63	0.72
			2op	410 (4.06)	410.9	0.71	409 (3.81)	410.3	0.53	409 (3.81)	410.3	0.53
51	20	0	rnd	410 (4.06)	411.3	0.84	409 (3.81)	410.37	0.76	409 (3.81)	410.33	0.71
			2op	410 (4.06)	410.9	0.71	409 (3.81)	410.2	0.61	409 (3.81)	410	0.69
		1	rnd	410 (4.06)	411.4	0.67	410 (4.06)	411.4	0.67	410 (4.06)	410.97	0.41
			2op	410 (4.06)	410.9	0.48	410 (4.06)	410.9	0.48	409 (3.81)	410.6	0.56
		1	rnd	410 (4.06)	411.4	0.67	410 (4.06)	411.4	0.67	409 (3.81)	410.57	0.63
			2op	410 (4.06)	410.9	0.48	410 (4.06)	410.9	0.48	409 (3.81)	410.07	0.83
	50	0	rnd	409 (3.81)	410.4	0.67	409 (3.81)	410.4	0.67	409 (3.81)	410.17	0.7
			2op	409 (3.81)	409.93	0.52	409 (3.81)	409.93	0.52	408 (3.55)	409.47	0.73
		1	rnd	409 (3.81)	410.4	0.67	409 (3.81)	410.4	0.67	409 (3.81)	410.03	0.61
			2op	409 (3.81)	409.93	0.52	409 (3.81)	409.93	0.52	408 (3.55)	409.53	0.68

Table A.39: $u1000_4$: BasicRRGA – Perfect Score is 394

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	413 (4.82)	413.53	0.51	411 (4.31)	412.67	0.61	411 (4.31)	411.7	0.47
			2op	412 (4.57)	413.27	0.64	411 (4.31)	412.13	0.57	410 (4.06)	411.07	0.52
		1	rnd	413 (4.82)	413.53	0.51	410 (4.06)	411.37	0.67	409 (3.81)	410.93	0.78
			2op	412 (4.57)	413.27	0.64	408 (3.55)	409.93	0.87	409 (3.81)	409.87	0.63
	50	0	rnd	413 (4.82)	413.4	0.5	411 (4.31)	412.6	0.62	411 (4.31)	411.33	0.48
			2op	412 (4.57)	413.2	0.55	411 (4.31)	412	0.74	410 (4.06)	410.87	0.43
51	20	1	rnd	413 (4.82)	413.4	0.5	410 (4.06)	411.2	0.85	410 (4.06)	410.83	0.59
			2op	412 (4.57)	413.2	0.55	409 (3.81)	410.2	0.89	408 (3.55)	409.83	0.7
		0	rnd	412 (4.57)	412.97	0.41	412 (4.57)	412.97	0.41	410 (4.06)	411.27	0.58
			2op	411 (4.31)	412.1	0.61	411 (4.31)	412.1	0.61	410 (4.06)	410.6	0.5
		1	rnd	412 (4.57)	412.97	0.41	412 (4.57)	412.97	0.41	410 (4.06)	410.67	0.66
			2op	411 (4.31)	412.1	0.61	411 (4.31)	412.1	0.61	408 (3.55)	409.8	0.81
	50	0	rnd	412 (4.57)	412.93	0.37	412 (4.57)	412.93	0.37	410 (4.06)	411	0.59
			2op	412 (4.57)	412.27	0.45	412 (4.57)	412.27	0.45	409 (3.81)	410.4	0.56
		1	rnd	412 (4.57)	412.93	0.37	412 (4.57)	412.93	0.37	410 (4.06)	410.73	0.74
			2op	412 (4.57)	412.27	0.45	412 (4.57)	412.27	0.45	409 (3.81)	409.73	0.78

Table A.40: $u1000_4$: TransRRGA – Perfect Score is 394

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	418 (3.98)	419.2	0.55	418 (3.98)	419.03	0.56	418 (3.98)	418.93	0.52
			2op	418 (3.98)	419.1	0.61	418 (3.98)	418.77	0.5	417 (3.73)	418.33	0.61
		1	rnd	418 (3.98)	419.2	0.55	417 (3.73)	418.53	0.68	417 (3.73)	418.1	0.71
			2op	418 (3.98)	419.1	0.61	416 (3.48)	417.8	0.81	416 (3.48)	417.77	0.63
	50	0	rnd	417 (3.73)	418.77	0.77	417 (3.73)	418.43	0.63	417 (3.73)	418.33	0.66
			2op	418 (3.98)	418.53	0.51	417 (3.73)	418.1	0.55	417 (3.73)	417.97	0.49
51	20	1	rnd	417 (3.73)	418.77	0.77	417 (3.73)	418.13	0.51	417 (3.73)	418.13	0.51
			2op	418 (3.98)	418.53	0.51	416 (3.48)	417.57	0.82	416 (3.48)	417.53	0.68
		0	rnd	418 (3.98)	419.03	0.49	418 (3.98)	419.03	0.49	418 (3.98)	418.7	0.47
			2op	417 (3.73)	418.63	0.56	417 (3.73)	418.63	0.56	417 (3.73)	418.37	0.56
	50	1	rnd	418 (3.98)	419.03	0.49	418 (3.98)	419.03	0.49	417 (3.73)	418.23	0.57
			2op	417 (3.73)	418.63	0.56	417 (3.73)	418.63	0.56	417 (3.73)	417.57	0.57
		0	rnd	417 (3.73)	417.93	0.64	417 (3.73)	417.93	0.64	417 (3.73)	417.8	0.55
			2op	416 (3.48)	417.53	0.68	416 (3.48)	417.53	0.68	417 (3.73)	417.43	0.5
		1	rnd	417 (3.73)	417.93	0.64	417 (3.73)	417.93	0.64	416 (3.48)	417.7	0.65
			2op	416 (3.48)	417.53	0.68	416 (3.48)	417.53	0.68	416 (3.48)	417.4	0.77

Table A.41: $u1000_15$: BasicRRGA – Perfect Score is 402

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	420 (4.48)	420.63	0.56	419 (4.23)	419.97	0.49	419 (4.23)	419.27	0.45
			2op	420 (4.48)	420.9	0.31	419 (4.23)	419.97	0.56	418 (3.98)	419.13	0.51
		1	rnd	420 (4.48)	420.63	0.56	417 (3.73)	418.5	0.63	417 (3.73)	418.43	0.63
			2op	420 (4.48)	420.9	0.31	417 (3.73)	418.73	1.46	417 (3.73)	417.83	0.87
	50	0	rnd	420 (4.48)	420.4	0.5	419 (4.23)	419.83	0.38	419 (4.23)	419.23	0.43
			2op	420 (4.48)	420.7	0.47	419 (4.23)	420	0.74	418 (3.98)	418.73	0.45
51	20	1	rnd	420 (4.48)	420.4	0.5	417 (3.73)	418.67	0.76	417 (3.73)	418.13	0.68
			2op	420 (4.48)	420.7	0.47	417 (3.73)	418.93	1.62	416 (3.48)	417.7	0.7
		0	rnd	419 (4.23)	419.97	0.18	419 (4.23)	419.97	0.18	418 (3.98)	418.93	0.58
			2op	419 (4.23)	420.07	0.37	419 (4.23)	420.07	0.37	417 (3.73)	418.83	0.53
	50	1	rnd	419 (4.23)	419.97	0.18	419 (4.23)	419.97	0.18	417 (3.73)	418.67	0.76
			2op	419 (4.23)	420.07	0.37	419 (4.23)	420.07	0.37	416 (3.48)	417.63	0.76
		0	rnd	420 (4.48)	420	0	420 (4.48)	420	0	418 (3.98)	418.87	0.35
			2op	419 (4.23)	420.13	0.43	419 (4.23)	420.13	0.43	417 (3.73)	418.57	0.57
		1	rnd	420 (4.48)	420	0	420 (4.48)	420	0	417 (3.73)	418.43	0.82
			2op	419 (4.23)	420.13	0.43	419 (4.23)	420.13	0.43	417 (3.73)	417.63	0.61

Table A.42: $u1000_15$: TransRRGA – Perfect Score is 402

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	420 (3.96)	421.3	0.65	419 (3.71)	420.57	0.77	419 (3.71)	420.33	0.66
			2op	418 (3.47)	419.17	0.59	418 (3.47)	419.03	0.41	418 (3.47)	418.87	0.35
		1	rnd	420 (3.96)	421.3	0.65	418 (3.47)	419.23	0.86	417 (3.22)	418.8	0.71
			2op	418 (3.47)	419.17	0.59	418 (3.47)	418.4	0.5	418 (3.47)	418.7	0.47
	50	0	rnd	419 (3.71)	420.43	0.68	419 (3.71)	419.83	0.7	418 (3.47)	419.43	0.73
			2op	418 (3.47)	418.73	0.52	417 (3.22)	418.47	0.57	418 (3.47)	418.67	0.48
51	20	1	rnd	419 (3.71)	420.43	0.68	418 (3.47)	419.07	0.74	417 (3.22)	418.53	0.63
			2op	418 (3.47)	418.73	0.52	418 (3.47)	418.37	0.49	417 (3.22)	418.4	0.62
		0	rnd	419 (3.71)	420.77	0.82	419 (3.71)	420.77	0.82	419 (3.71)	420	0.53
			2op	418 (3.47)	418.9	0.48	418 (3.47)	418.9	0.48	417 (3.22)	418.5	0.57
		1	rnd	419 (3.71)	420.77	0.82	419 (3.71)	420.77	0.82	417 (3.22)	418.93	0.78
			2op	418 (3.47)	418.9	0.48	418 (3.47)	418.9	0.48	418 (3.47)	418.5	0.51
	50	0	rnd	418 (3.47)	419.37	0.72	418 (3.47)	419.37	0.72	418 (3.47)	418.87	0.82
			2op	417 (3.22)	418.27	0.58	417 (3.22)	418.27	0.58	417 (3.22)	418.03	0.41
		1	rnd	418 (3.47)	419.37	0.72	418 (3.47)	419.37	0.72	417 (3.22)	418.63	0.67
			2op	417 (3.22)	418.27	0.58	417 (3.22)	418.27	0.58	417 (3.22)	417.77	0.43

Table A.43: $u1000_16$: BasicRRGA – Perfect Score is 404

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	422 (4.46)	422.73	0.45	421 (4.21)	422	0.45	420 (3.96)	421.07	0.45
			2op	420 (3.96)	420.8	0.41	419 (3.71)	420.2	0.55	419 (3.71)	419.8	0.41
		1	rnd	422 (4.46)	422.73	0.45	418 (3.47)	418.67	0.61	418 (3.47)	418.83	0.79
			2op	420 (3.96)	420.8	0.41	417 (3.22)	418.53	0.57	417 (3.22)	418.4	0.56
	50	0	rnd	421 (4.21)	422.6	0.56	421 (4.21)	422.1	0.48	420 (3.96)	421	0.53
			2op	420 (3.96)	420.83	0.38	419 (3.71)	420.17	0.46	419 (3.71)	419.43	0.5
51	20	1	rnd	421 (4.21)	422.6	0.56	417 (3.22)	418.6	0.77	418 (3.47)	418.77	0.73
			2op	420 (3.96)	420.83	0.38	417 (3.22)	418.53	0.63	417 (3.22)	418.37	0.56
		0	rnd	422 (4.46)	422.23	0.43	422 (4.46)	422.23	0.43	420 (3.96)	420.9	0.48
			2op	419 (3.71)	420.13	0.43	419 (3.71)	420.13	0.43	418 (3.47)	419.13	0.63
		1	rnd	422 (4.46)	422.23	0.43	422 (4.46)	422.23	0.43	417 (3.22)	418.8	0.92
			2op	419 (3.71)	420.13	0.43	419 (3.71)	420.13	0.43	417 (3.22)	418.2	0.66
	50	0	rnd	421 (4.21)	422.03	0.32	421 (4.21)	422.03	0.32	420 (3.96)	420.97	0.49
			2op	420 (3.96)	420.1	0.31	420 (3.96)	420.1	0.31	418 (3.47)	419.03	0.41
		1	rnd	421 (4.21)	422.03	0.32	421 (4.21)	422.03	0.32	417 (3.22)	418.93	1.05
			2op	420 (3.96)	420.1	0.31	420 (3.96)	420.1	0.31	417 (3.22)	418	0.64

Table A.44: $u1000_16$: TransRRGA – Perfect Score is 404

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	419 (3.71)	420.17	0.53	418 (3.47)	419.7	0.7	418 (3.47)	419.6	0.56
			2op	420 (3.96)	420.8	0.61	419 (3.71)	420.33	0.66	420 (3.96)	420.4	0.5
		1	rnd	419 (3.71)	420.17	0.53	418 (3.47)	419.5	0.57	418 (3.47)	419.43	0.63
			2op	420 (3.96)	420.8	0.61	418 (3.47)	419.4	0.67	418 (3.47)	419.13	0.57
	50	0	rnd	418 (3.47)	419.43	0.57	418 (3.47)	419.43	0.57	418 (3.47)	419.07	0.52
			2op	419 (3.71)	420.4	0.56	419 (3.71)	419.77	0.68	418 (3.47)	419.97	0.76
51	20	1	rnd	418 (3.47)	419.43	0.57	418 (3.47)	419.17	0.65	418 (3.47)	418.93	0.64
			2op	419 (3.71)	420.4	0.56	418 (3.47)	419.1	0.71	418 (3.47)	419	0.59
		0	rnd	418 (3.47)	419.5	0.57	418 (3.47)	419.5	0.57	418 (3.47)	419.23	0.68
			2op	419 (3.71)	420.3	0.65	419 (3.71)	420.3	0.65	419 (3.71)	419.83	0.65
	50	1	rnd	418 (3.47)	419.5	0.57	418 (3.47)	419.5	0.57	418 (3.47)	418.8	0.66
			2op	419 (3.71)	420.3	0.65	419 (3.71)	420.3	0.65	418 (3.47)	419.17	0.75
		0	rnd	417 (3.22)	418.8	0.66	417 (3.22)	418.8	0.66	417 (3.22)	418.47	0.63
			2op	418 (3.47)	419.27	0.74	418 (3.47)	419.27	0.74	418 (3.47)	419.07	0.64
		1	rnd	417 (3.22)	418.8	0.66	417 (3.22)	418.8	0.66	417 (3.22)	418.53	0.68
			2op	418 (3.47)	419.27	0.74	418 (3.47)	419.27	0.74	418 (3.47)	418.67	0.61

Table A.45: $u1000_17$: BasicRRGA – Perfect Score is 404

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	420 (3.96)	420.87	0.35	420 (3.96)	420.53	0.51	419 (3.71)	419.97	0.32
			2op	422 (4.46)	422.47	0.51	421 (4.21)	422.2	0.55	421 (4.21)	421.47	0.51
		1	rnd	420 (3.96)	420.87	0.35	419 (3.71)	419.87	0.57	418 (3.47)	419.63	0.56
			2op	422 (4.46)	422.47	0.51	418 (3.47)	419.2	0.66	418 (3.47)	418.97	0.67
	50	0	rnd	420 (3.96)	420.93	0.25	420 (3.96)	420.47	0.51	419 (3.71)	419.87	0.35
			2op	422 (4.46)	422.33	0.48	421 (4.21)	421.7	0.53	421 (4.21)	421.37	0.49
51	20	1	rnd	420 (3.96)	420.93	0.25	419 (3.71)	419.73	0.52	418 (3.47)	419.33	0.61
			2op	422 (4.46)	422.33	0.48	418 (3.47)	419	0.69	418 (3.47)	419.07	0.37
		0	rnd	420 (3.96)	420.37	0.49	420 (3.96)	420.37	0.49	419 (3.71)	419.6	0.5
			2op	421 (4.21)	421.87	0.43	421 (4.21)	421.87	0.43	420 (3.96)	420.93	0.45
	50	1	rnd	420 (3.96)	420.37	0.49	420 (3.96)	420.37	0.49	418 (3.47)	419.6	0.56
			2op	421 (4.21)	421.87	0.43	421 (4.21)	421.87	0.43	418 (3.47)	418.77	0.57
		0	rnd	420 (3.96)	420.7	0.47	420 (3.96)	420.7	0.47	419 (3.71)	419.73	0.45
			2op	421 (4.21)	421.73	0.45	421 (4.21)	421.73	0.45	420 (3.96)	420.87	0.51
		1	rnd	420 (3.96)	420.7	0.47	420 (3.96)	420.7	0.47	419 (3.71)	419.33	0.48
			2op	421 (4.21)	421.73	0.45	421 (4.21)	421.73	0.45	418 (3.47)	418.83	0.53

Table A.46: $u1000_17$: TransRRGA – Perfect Score is 404

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	415 (4.01)	415.93	0.58	415 (4.01)	415.7	0.47	415 (4.01)	415.53	0.51
			2op	413 (3.51)	414.73	0.58	413 (3.51)	414.57	0.63	414 (3.76)	414.6	0.5
		1	rnd	415 (4.01)	415.93	0.58	413 (3.51)	414.07	0.69	413 (3.51)	414.07	0.52
			2op	413 (3.51)	414.73	0.58	413 (3.51)	414.03	0.72	413 (3.51)	413.8	0.66
	50	0	rnd	414 (3.76)	415.5	0.63	413 (3.51)	414.93	0.78	414 (3.76)	414.87	0.57
			2op	413 (3.51)	414.5	0.57	413 (3.51)	414.2	0.66	413 (3.51)	413.97	0.56
51	20	0	rnd	415 (4.01)	415.5	0.51	415 (4.01)	415.5	0.51	414 (3.76)	415.4	0.56
			2op	414 (3.76)	414.27	0.45	414 (3.76)	414.27	0.45	413 (3.51)	414.17	0.46
		1	rnd	415 (4.01)	415.5	0.51	415 (4.01)	415.5	0.51	413 (3.51)	413.97	0.67
			2op	414 (3.76)	414.27	0.45	414 (3.76)	414.27	0.45	412 (3.26)	413.53	0.63
	50	0	rnd	414 (3.76)	414.47	0.51	414 (3.76)	414.47	0.51	413 (3.51)	414.2	0.71
			2op	413 (3.51)	413.87	0.57	413 (3.51)	413.87	0.57	413 (3.51)	413.7	0.47
		1	rnd	414 (3.76)	414.47	0.51	414 (3.76)	414.47	0.51	413 (3.51)	413.57	0.5
			2op	413 (3.51)	413.87	0.57	413 (3.51)	413.87	0.57	412 (3.26)	413.27	0.69

Table A.47: $u1000_18$: BasicRRGA – Perfect Score is 399

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	417 (4.51)	417.43	0.57	416 (4.26)	416.93	0.45	415 (4.01)	416.07	0.37
			2op	415 (4.01)	415.8	0.41	414 (3.76)	415.47	0.57	414 (3.76)	414.9	0.4
		1	rnd	417 (4.51)	417.43	0.57	412 (3.26)	413.83	0.7	412 (3.26)	413.63	0.72
			2op	415 (4.01)	415.8	0.41	413 (3.51)	413.97	0.76	412 (3.26)	413.9	0.61
	50	0	rnd	417 (4.51)	417.6	0.5	415 (4.01)	416.53	0.57	415 (4.01)	415.8	0.41
			2op	415 (4.01)	415.73	0.45	414 (3.76)	415.27	0.58	414 (3.76)	414.77	0.43
51	20	0	rnd	417 (4.51)	417.6	0.5	413 (3.51)	414.17	0.65	413 (3.51)	413.87	0.68
			2op	415 (4.01)	415.73	0.45	412 (3.26)	413.67	0.8	413 (3.51)	413.87	0.73
		1	rnd	415 (4.01)	416.9	0.4	415 (4.01)	416.9	0.4	414 (3.76)	415.33	0.55
			2op	415 (4.01)	415.5	0.51	415 (4.01)	415.5	0.51	413 (3.51)	414.23	0.63
	50	0	rnd	415 (4.01)	416.9	0.4	415 (4.01)	416.9	0.4	412 (3.26)	413.77	0.73
			2op	415 (4.01)	415.5	0.51	415 (4.01)	415.5	0.51	412 (3.26)	413.43	0.63
		1	rnd	416 (4.26)	416.8	0.41	416 (4.26)	416.8	0.41	414 (3.76)	415.23	0.5
			2op	415 (4.01)	415.2	0.41	415 (4.01)	415.2	0.41	413 (3.51)	414.17	0.46
		1	rnd	416 (4.26)	416.8	0.41	416 (4.26)	416.8	0.41	413 (3.51)	413.63	0.56
			2op	415 (4.01)	415.2	0.41	415 (4.01)	415.2	0.41	412 (3.26)	413.37	0.89

Table A.48: $u1000_18$: TransRRGA – Perfect Score is 399

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	415 (3.75)	416.7	0.6	415 (3.75)	416.2	0.48	415 (3.75)	416.1	0.48
			2op	415 (3.75)	415.53	0.57	415 (3.75)	415.43	0.5	414 (3.5)	415.1	0.48
		1	rnd	415 (3.75)	416.7	0.6	414 (3.5)	415.67	0.76	414 (3.5)	415.7	0.6
			2op	415 (3.75)	415.53	0.57	413 (3.25)	414.73	0.64	413 (3.25)	414.53	0.68
	50	0	rnd	414 (3.5)	416	0.64	414 (3.5)	415.4	0.72	414 (3.5)	415.5	0.63
			2op	414 (3.5)	415.1	0.66	414 (3.5)	415	0.45	414 (3.5)	414.6	0.62
51	20	1	rnd	414 (3.5)	416	0.64	414 (3.5)	415.2	0.66	414 (3.5)	415.07	0.74
			2op	414 (3.5)	415.1	0.66	414 (3.5)	414.63	0.49	413 (3.25)	414.5	0.57
		0	rnd	416 (4)	416.33	0.48	416 (4)	416.33	0.48	415 (3.75)	415.97	0.56
			2op	414 (3.5)	415.3	0.6	414 (3.5)	415.3	0.6	414 (3.5)	414.8	0.55
	50	1	rnd	416 (4)	416.33	0.48	416 (4)	416.33	0.48	414 (3.5)	415.33	0.71
			2op	414 (3.5)	415.3	0.6	414 (3.5)	415.3	0.6	414 (3.5)	414.73	0.45
		0	rnd	414 (3.5)	414.97	0.61	414 (3.5)	414.97	0.61	414 (3.5)	415	0.59
			2op	413 (3.25)	414.47	0.57	413 (3.25)	414.47	0.57	413 (3.25)	414.2	0.61
		1	rnd	414 (3.5)	414.97	0.61	414 (3.5)	414.97	0.61	413 (3.25)	414.7	0.75
			2op	413 (3.25)	414.47	0.57	413 (3.25)	414.47	0.57	413 (3.25)	413.9	0.66

Table A.49: $u1000_19$: BasicRRGA – Perfect Score is 400

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	417 (4.25)	417.9	0.61	416 (4)	417.13	0.43	416 (4)	416.7	0.47
			2op	416 (4)	417.07	0.52	415 (3.75)	416.33	0.66	415 (3.75)	415.4	0.5
		1	rnd	417 (4.25)	417.9	0.61	414 (3.5)	415.73	0.74	414 (3.5)	415.53	0.73
			2op	416 (4)	417.07	0.52	413 (3.25)	414.63	0.76	413 (3.25)	414.63	0.56
	50	0	rnd	417 (4.25)	417.77	0.43	416 (4)	417.07	0.37	415 (3.75)	416.33	0.55
			2op	416 (4)	417.03	0.56	415 (3.75)	416.07	0.52	414 (3.5)	415.07	0.37
51	20	1	rnd	417 (4.25)	417.77	0.43	415 (3.75)	415.77	0.68	414 (3.5)	415.4	0.62
			2op	416 (4)	417.03	0.56	413 (3.25)	414.7	0.84	414 (3.5)	414.7	0.6
		0	rnd	417 (4.25)	417.37	0.49	417 (4.25)	417.37	0.49	415 (3.75)	416.13	0.63
			2op	415 (3.75)	416.33	0.61	415 (3.75)	416.33	0.61	414 (3.5)	415.07	0.45
	50	1	rnd	417 (4.25)	417.37	0.49	417 (4.25)	417.37	0.49	415 (3.75)	415.77	0.5
			2op	415 (3.75)	416.33	0.61	415 (3.75)	416.33	0.61	413 (3.25)	414.53	0.63
		0	rnd	417 (4.25)	417.33	0.48	417 (4.25)	417.33	0.48	415 (3.75)	416.13	0.57
			2op	415 (3.75)	416.13	0.51	415 (3.75)	416.13	0.51	414 (3.5)	414.87	0.43
		1	rnd	417 (4.25)	417.33	0.48	417 (4.25)	417.33	0.48	414 (3.5)	415.53	0.63
			2op	415 (3.75)	416.13	0.51	415 (3.75)	416.13	0.51	413 (3.25)	414.67	0.55

Table A.50: $u1000_19$: TransRRGA – Perfect Score is 400

A.2.2 hard28 Instance Results

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	62 (0)	62.9	0.31	62 (0)	62.9	0.31	62 (0)	62.93	0.25
		1	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	62 (0)	62.9	0.31	62 (0)	62.1	0.31	62 (0)	62	0
	50	0	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	62 (0)	62.57	0.5	62 (0)	62.5	0.51	62 (0)	62.57	0.5
51	20	0	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	62 (0)	62.4	0.5	62 (0)	62.57	0.5	62 (0)	62.6	0.5
		1	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	62 (0)	62.4	0.5	62 (0)	62.17	0.38	62 (0)	62.1	0.31
	50	0	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	62 (0)	62.23	0.43	62 (0)	62.03	0.18	62 (0)	62.1	0.31
		1	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	62 (0)	62.23	0.43	62 (0)	62	0	62 (0)	62.2	0.41

Table A.51: *h1*: BasicRRGA – Perfect Score is 62

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	65 (4.84)	65	0	64 (3.23)	64.73	0.45	63 (1.61)	63.97	0.18
		1	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	65 (4.84)	65	0	62 (0)	64	1.44	62 (0)	62	0
	50	0	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	65 (4.84)	65	0	64 (3.23)	64.33	0.48	63 (1.61)	63.9	0.31
51	20	0	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	65 (4.84)	65	0	65 (4.84)	65	0	64 (3.23)	64	0
		1	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	65 (4.84)	65	0	65 (4.84)	65	0	62 (0)	62	0
	50	0	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	65 (4.84)	65	0	65 (4.84)	65	0	63 (1.61)	63.9	0.31
		1	rnd	62 (0)	62	0	62 (0)	62	0	62 (0)	62	0
			2op	65 (4.84)	65	0	65 (4.84)	65	0	62 (0)	62	0

Table A.52: *h1*: TransRRGA – Perfect Score is 62

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	61 (1.67)	61.97	0.18	61 (1.67)	61.73	0.45	61 (1.67)	61.87	0.35
		1	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	61 (1.67)	61.97	0.18	61 (1.67)	61.67	0.48	61 (1.67)	61.9	0.31
	50	0	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	62 (3.33)	62	0	61 (1.67)	61.63	0.49	61 (1.67)	61.87	0.35
51	20	0	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	61 (1.67)	61.77	0.43	61 (1.67)	61.87	0.35	61 (1.67)	61.87	0.35
		1	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	61 (1.67)	61.77	0.43	61 (1.67)	61.83	0.38	61 (1.67)	61.83	0.38
	50	0	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	61 (1.67)	61.9	0.31	61 (1.67)	61.9	0.31	61 (1.67)	61.8	0.41
		1	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	61 (1.67)	61.9	0.31	61 (1.67)	61.9	0.31	61 (1.67)	61.87	0.35

Table A.53: h_2 : BasicRRGA – Perfect Score is 60

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	67 (11.67)	67.03	0.18	64 (6.67)	64.87	0.57	63 (5)	63.9	0.31
		1	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	67 (11.67)	67.03	0.18	61 (1.67)	61.83	0.38	61 (1.67)	61.67	0.48
	50	0	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	67 (11.67)	67.03	0.18	64 (6.67)	64.67	0.48	63 (5)	63.7	0.47
51	20	0	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	67 (11.67)	67	0	66 (10)	66.03	0.18	63 (5)	63.17	0.38
		1	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	67 (11.67)	67	0	61 (1.67)	61.8	0.41	61 (1.67)	61.7	0.47
	50	0	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	66 (10)	66.97	0.18	65 (8.33)	66.03	0.32	63 (5)	63.23	0.43
		1	rnd	61 (1.67)	61	0	61 (1.67)	61	0	61 (1.67)	61	0
			2op	66 (10)	66.97	0.18	61 (1.67)	61.83	0.38	61 (1.67)	61.6	0.5

Table A.54: h_2 : TransRRGA – Perfect Score is 60

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
			2op	60 (1.69)	60.07	0.25	60 (1.69)	60	0	60 (1.69)	60	0
		1	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
	50	0	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
			2op	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
		1	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
51	20	0	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
			2op	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
		1	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
	50	0	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
			2op	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
		1	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0

Table A.55: *h3*: BasicRRGA – Perfect Score is 59

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
			2op	66 (11.86)	66	0	65 (10.17)	65.57	0.5	65 (10.17)	65	0
		1	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
	50	0	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
			2op	66 (11.86)	66	0	65 (10.17)	65.07	0.25	65 (10.17)	65	0
		1	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
51	20	0	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
			2op	66 (11.86)	66	0	66 (11.86)	66	0	65 (10.17)	65	0
		1	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
	50	0	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0
			2op	66 (11.86)	66	0	66 (11.86)	66	0	65 (10.17)	65	0
		1	rnd	60 (1.69)	60	0	60 (1.69)	60	0	60 (1.69)	60	0

Table A.56: *h3*: TransRRGA – Perfect Score is 59

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.5	0.51	63 (1.61)	63.43	0.5	63 (1.61)	63.53	0.51
		1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.5	0.51	63 (1.61)	63.37	0.49	63 (1.61)	63.17	0.38
	50	0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.37	0.49	63 (1.61)	63.27	0.45	63 (1.61)	63.4	0.5
51	20	1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.37	0.49	63 (1.61)	63.27	0.45	63 (1.61)	63.23	0.43
		0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.23	0.43	63 (1.61)	63.17	0.38	63 (1.61)	63.17	0.38
	50	1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.23	0.43	63 (1.61)	63.2	0.41	63 (1.61)	63.2	0.41
		0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.03	0.18	63 (1.61)	63.1	0.31	63 (1.61)	63	0
		1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.03	0.18	63 (1.61)	63.1	0.31	63 (1.61)	63	0

Table A.57: *h4*: BasicRRGA – Perfect Score is 62

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	70 (12.9)	70	0	69 (11.29)	69	0	68 (9.68)	68.8	0.41
		1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	70 (12.9)	70	0	63 (1.61)	63.07	0.25	63 (1.61)	63.07	0.25
		0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	70 (12.9)	70	0	68 (9.68)	68.97	0.18	68 (9.68)	68.67	0.48
	50	1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	70 (12.9)	70	0	63 (1.61)	63.1	0.31	63 (1.61)	63.03	0.18
		0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	70 (12.9)	70	0	69 (11.29)	69.6	0.5	68 (9.68)	68.47	0.51
51	20	1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	70 (12.9)	70	0	63 (1.61)	67.33	3.37	63 (1.61)	63	0
		0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	70 (12.9)	70	0	69 (11.29)	69.67	0.48	68 (9.68)	68.1	0.31
	50	1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	70 (12.9)	70	0	63 (1.61)	67.17	3.46	63 (1.61)	63	0

Table A.58: *h4*: TransRRGA – Perfect Score is 62

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
		1	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
	50	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
51	20	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
		1	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
	50	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
51	20	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
		1	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
	50	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
51	20	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
		1	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
	50	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0

Table A.59: *h5*: BasicRRGA – Perfect Score is 58

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	61 (5.17)	61	0	61 (5.17)	61	0	61 (5.17)	61	0
		1	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	61 (5.17)	61	0	61 (5.17)	61	0	61 (5.17)	61	0
	50	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	61 (5.17)	61	0	61 (5.17)	61	0	61 (5.17)	61	0
51	20	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	61 (5.17)	61	0	61 (5.17)	61	0	61 (5.17)	61	0
		1	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	61 (5.17)	61	0	61 (5.17)	61	0	61 (5.17)	61	0
	50	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	61 (5.17)	61	0	61 (5.17)	61	0	61 (5.17)	61	0
51	20	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	61 (5.17)	61	0	61 (5.17)	61	0	61 (5.17)	61	0
		1	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	61 (5.17)	61	0	61 (5.17)	61	0	61 (5.17)	61	0
	50	0	rnd	59 (1.72)	59	0	59 (1.72)	59	0	59 (1.72)	59	0
			2op	61 (5.17)	61	0	61 (5.17)	61	0	61 (5.17)	61	0

Table A.60: *h5*: TransRRGA – Perfect Score is 58

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65.67	0.48	65 (1.56)	65.53	0.51	65 (1.56)	65.53	0.51
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65.67	0.48	65 (1.56)	65.33	0.48	65 (1.56)	65.37	0.49
	50	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65.53	0.51	65 (1.56)	65.63	0.49	65 (1.56)	65.53	0.51
51	20	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65.43	0.5	65 (1.56)	65.53	0.51	65 (1.56)	65.2	0.41
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65.43	0.5	65 (1.56)	65.47	0.51	65 (1.56)	65.47	0.51
	50	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65.3	0.47	65 (1.56)	65.37	0.49	65 (1.56)	65.2	0.41
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65.3	0.47	65 (1.56)	65.37	0.49	65 (1.56)	65.2	0.41

Table A.61: *h6*: BasicRRGA – Perfect Score is 64

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	71 (10.94)	71	0	71 (10.94)	71	0	70 (9.38)	70.97	0.18
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	71 (10.94)	71	0	71 (10.94)	71	0	67 (4.69)	70.87	0.73
	50	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	71 (10.94)	71	0	71 (10.94)	71	0	70 (9.38)	70.9	0.31
51	20	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	71 (10.94)	71	0	71 (10.94)	71	0	70 (9.38)	70.83	0.38
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	71 (10.94)	71	0	71 (10.94)	71	0	65 (1.56)	70.4	1.83
	50	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	71 (10.94)	71	0	71 (10.94)	71	0	70 (9.38)	70.9	0.31
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	71 (10.94)	71	0	71 (10.94)	71	0	65 (1.56)	70.2	2.07

Table A.62: *h6*: TransRRGA – Perfect Score is 64

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.33	0.48	63 (1.61)	63.17	0.38	63 (1.61)	63.23	0.43
		1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.33	0.48	63 (1.61)	63.3	0.47	63 (1.61)	63.07	0.25
	50	0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.27	0.45	63 (1.61)	63.17	0.38	63 (1.61)	63.27	0.45
51	20	1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.27	0.45	63 (1.61)	63.2	0.41	63 (1.61)	63.23	0.43
		0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.1	0.31	63 (1.61)	63.03	0.18	63 (1.61)	63.1	0.31
	50	1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63.1	0.31	63 (1.61)	63.07	0.25	63 (1.61)	63.2	0.41
		0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
		1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0

Table A.63: *h7*: BasicRRGA – Perfect Score is 62

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	71 (14.52)	71	0	70 (12.9)	70.47	0.51	70 (12.9)	70	0
		1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	71 (14.52)	71	0	63 (1.61)	66.07	3.77	63 (1.61)	63	0
	50	0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	71 (14.52)	71	0	70 (12.9)	70.17	0.38	69 (11.29)	69.93	0.25
51	20	1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	71 (14.52)	71	0	63 (1.61)	65.07	3.49	63 (1.61)	63	0
		0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	71 (14.52)	71	0	71 (14.52)	71	0	70 (12.9)	70	0
	50	1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	71 (14.52)	71	0	71 (14.52)	71	0	63 (1.61)	63.03	0.18
		0	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	71 (14.52)	71	0	70 (12.9)	70.93	0.25	69 (11.29)	69.93	0.25
		1	rnd	63 (1.61)	63	0	63 (1.61)	63	0	63 (1.61)	63	0
			2op	71 (14.52)	71	0	63 (1.61)	70.47	2.03	63 (1.61)	63.03	0.18

Table A.64: *h7*: TransRRGA – Perfect Score is 62

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	64 (1.59)	64.03	0.18	64 (1.59)	64	0	64 (1.59)	64.03	0.18
		1	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	64 (1.59)	64.03	0.18	64 (1.59)	64	0	64 (1.59)	64	0
	50	0	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	64 (1.59)	64	0	64 (1.59)	64.03	0.18	64 (1.59)	64.03	0.18
51	20	1	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
		0	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
	50	1	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
		0	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0

Table A.65: *h8*: BasicRRGA – Perfect Score is 63

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	66 (4.76)	66	0	65 (3.17)	65.03	0.18	64 (1.59)	64.93	0.25
		1	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	66 (4.76)	66	0	64 (1.59)	64	0	64 (1.59)	64	0
	50	0	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	66 (4.76)	66	0	65 (3.17)	65	0	65 (3.17)	65	0
51	20	1	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	66 (4.76)	66	0	64 (1.59)	64	0	64 (1.59)	64	0
		0	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	66 (4.76)	66	0	65 (3.17)	65.9	0.31	64 (1.59)	64.97	0.18
	50	1	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	66 (4.76)	66	0	64 (1.59)	65.77	0.63	64 (1.59)	64	0
		0	rnd	64 (1.59)	64	0	64 (1.59)	64	0	64 (1.59)	64	0
			2op	66 (4.76)	66	0	65 (3.17)	65.8	0.41	64 (1.59)	64.93	0.25

Table A.66: *h8*: TransRRGA – Perfect Score is 63

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68.77	0.43	68 (1.49)	68.57	0.5	68 (1.49)	68.57	0.5
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68.77	0.43	68 (1.49)	68.57	0.5	68 (1.49)	68.37	0.49
	50	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68.33	0.48	68 (1.49)	68.37	0.49	68 (1.49)	68.47	0.51
51	20	1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68.33	0.48	68 (1.49)	68.2	0.41	68 (1.49)	68.47	0.51
		0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68.3	0.47	68 (1.49)	68.17	0.38	68 (1.49)	68.27	0.45
	50	1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68.3	0.47	68 (1.49)	68.4	0.5	68 (1.49)	68.27	0.45
		0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68.13	0.35	68 (1.49)	68.17	0.38	68 (1.49)	68.03	0.18
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68.13	0.35	68 (1.49)	68.17	0.38	68 (1.49)	68.03	0.18

Table A.67: *h9*: BasicRRGA – Perfect Score is 67

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	80 (19.4)	80.97	0.18	80 (19.4)	80	0	79 (17.91)	79.9	0.31
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	80 (19.4)	80.97	0.18	68 (1.49)	69.57	1.1	68 (1.49)	69.87	0.97
	50	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	81 (20.9)	81	0	80 (19.4)	80	0	79 (17.91)	79.87	0.35
51	20	1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	81 (20.9)	81	0	68 (1.49)	69.63	0.89	68 (1.49)	69.73	1.01
		0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	80 (19.4)	80.9	0.31	80 (19.4)	80	0	79 (17.91)	79.87	0.35
	50	1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	80 (19.4)	80.9	0.31	68 (1.49)	70.27	2.3	68 (1.49)	69.73	0.94
		0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	80 (19.4)	80.9	0.31	80 (19.4)	80	0	79 (17.91)	79.73	0.45
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	80 (19.4)	80.9	0.31	68 (1.49)	69.8	1	68 (1.49)	69.83	1.05

Table A.68: *h9*: TransRRGA – Perfect Score is 67

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
	50	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
51	20	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
	50	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0

Table A.69: $h10$: BasicRRGA – Perfect Score is 64

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	66 (3.12)	66	0	65 (1.56)	65	0	65 (1.56)	65	0
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	66 (3.12)	66	0	65 (1.56)	65	0	65 (1.56)	65	0
	50	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	66 (3.12)	66	0	65 (1.56)	65	0	65 (1.56)	65	0
51	20	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	66 (3.12)	66	0	65 (1.56)	65.8	0.41	65 (1.56)	65	0
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	66 (3.12)	66	0	65 (1.56)	65.8	0.41	65 (1.56)	65	0
	50	0	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	66 (3.12)	66	0	65 (1.56)	65.7	0.47	65 (1.56)	65	0
		1	rnd	65 (1.56)	65	0	65 (1.56)	65	0	65 (1.56)	65	0
			2op	66 (3.12)	66	0	65 (1.56)	65.7	0.47	65 (1.56)	65	0

Table A.70: $h10$: TransRRGA – Perfect Score is 64

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68.1	0.31	68 (1.49)	68.03	0.18	68 (1.49)	68	0
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68.1	0.31	68 (1.49)	68	0	68 (1.49)	68	0
	50	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
51	20	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
	50	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0

Table A.71: $h11$: BasicRRGA – Perfect Score is 67

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	69 (2.99)	69.13	0.35	69 (2.99)	69	0	69 (2.99)	69	0
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	69 (2.99)	69.13	0.35	68 (1.49)	68	0	68 (1.49)	68	0
	50	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	69 (2.99)	69.17	0.38	69 (2.99)	69	0	68 (1.49)	68.97	0.18
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	69 (2.99)	69.17	0.38	68 (1.49)	68	0	68 (1.49)	68	0
51	20	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	69 (2.99)	69	0	69 (2.99)	69	0	68 (1.49)	68.83	0.38
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	69 (2.99)	69	0	68 (1.49)	68	0	68 (1.49)	68	0
	50	0	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	69 (2.99)	69	0	69 (2.99)	69	0	68 (1.49)	68.77	0.43
		1	rnd	68 (1.49)	68	0	68 (1.49)	68	0	68 (1.49)	68	0
			2op	69 (2.99)	69	0	68 (1.49)	68	0	68 (1.49)	68	0

Table A.72: $h11$: TransRRGA – Perfect Score is 67

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69.03	0.18	69 (1.47)	69	0	69 (1.47)	69.03	0.18
		1	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69.03	0.18	69 (1.47)	69.03	0.18	69 (1.47)	69	0
	50	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
51	20	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69.03	0.18
		1	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
	50	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
51	20	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
		1	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
	50	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
51	20	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
		1	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
	50	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0

Table A.73: *h12*: BasicRRGA – Perfect Score is 68

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	73 (7.35)	73	0	70 (2.94)	71	0.53	70 (2.94)	70	0
		1	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	73 (7.35)	73	0	69 (1.47)	69.03	0.18	69 (1.47)	69.07	0.25
	50	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	72 (5.88)	72.97	0.18	70 (2.94)	70.83	0.38	70 (2.94)	70	0
51	20	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	72 (5.88)	72.9	0.31	71 (4.41)	71.93	0.25	70 (2.94)	70	0
		1	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	72 (5.88)	72.9	0.31	69 (1.47)	69.07	0.25	69 (1.47)	69.07	0.25
	50	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	72 (5.88)	72.8	0.41	71 (4.41)	71.93	0.25	70 (2.94)	70	0
51	20	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	72 (5.88)	72.8	0.41	69 (1.47)	69.07	0.25	69 (1.47)	69.2	0.41
		1	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	72 (5.88)	72.8	0.41	69 (1.47)	69.07	0.25	69 (1.47)	69.2	0.41
	50	0	rnd	69 (1.47)	69	0	69 (1.47)	69	0	69 (1.47)	69	0
			2op	72 (5.88)	72.8	0.41	69 (1.47)	69.07	0.25	69 (1.47)	69.2	0.41

Table A.74: *h12*: TransRRGA – Perfect Score is 68

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.97	0.32	72 (1.41)	72.8	0.41	72 (1.41)	72.8	0.41
		1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.97	0.32	72 (1.41)	72.77	0.43	72 (1.41)	72.4	0.5
	50	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.97	0.18	72 (1.41)	72.83	0.38	72 (1.41)	72.9	0.31
51	20	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.97	0.18	72 (1.41)	72.83	0.38	72 (1.41)	72.83	0.38
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.7	0.47	72 (1.41)	72.7	0.47	72 (1.41)	72.73	0.45
	50	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.7	0.47	72 (1.41)	72.7	0.47	72 (1.41)	72.73	0.45
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.63	0.49	72 (1.41)	72.47	0.51	72 (1.41)	72.53	0.51
		1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.63	0.49	72 (1.41)	72.47	0.51	72 (1.41)	72.53	0.51

Table A.75: *h13*: BasicRRGA – Perfect Score is 71

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	82 (15.49)	82	0	81 (14.08)	81.43	0.5	81 (14.08)	81	0
		1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	82 (15.49)	82	0	72 (1.41)	78.83	4.52	72 (1.41)	72.67	0.92
	50	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	82 (15.49)	82	0	81 (14.08)	81.23	0.43	81 (14.08)	81	0
51	20	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	82 (15.49)	82	0	72 (1.41)	74.23	3.64	72 (1.41)	72.53	0.73
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	82 (15.49)	82	0	82 (15.49)	82	0	81 (14.08)	81	0
	50	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	82 (15.49)	82	0	82 (15.49)	82	0	72 (1.41)	72.83	0.99
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	82 (15.49)	82	0	81 (14.08)	81.93	0.25	81 (14.08)	81	0
		1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	82 (15.49)	82	0	72 (1.41)	81.27	2.53	72 (1.41)	72.67	0.88

Table A.76: *h13*: TransRRGA – Perfect Score is 71

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.93	0.25	73 (1.39)	73.9	0.31	74 (2.78)	74	0
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.93	0.25	73 (1.39)	73.6	0.5	73 (1.39)	73.33	0.48
	50	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.93	0.25	73 (1.39)	73.83	0.38	73 (1.39)	73.9	0.31
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.93	0.25	73 (1.39)	73.9	0.31	73 (1.39)	73.57	0.5
51	20	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.67	0.48	73 (1.39)	73.77	0.43	73 (1.39)	73.83	0.38
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.67	0.48	73 (1.39)	73.63	0.49	73 (1.39)	73.47	0.51
	50	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.73	0.45	73 (1.39)	73.67	0.48	73 (1.39)	73.6	0.5
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.73	0.45	73 (1.39)	73.73	0.45	73 (1.39)	73.63	0.49

Table A.77: *h14*: BasicRRGA – Perfect Score is 72

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	82 (13.89)	82.97	0.18	82 (13.89)	82	0	82 (13.89)	82	0
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	82 (13.89)	82.97	0.18	73 (1.39)	73	0	73 (1.39)	73	0
	50	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	83 (15.28)	83	0	82 (13.89)	82	0	82 (13.89)	82	0
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	83 (15.28)	83	0	73 (1.39)	73	0	73 (1.39)	73	0
51	20	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	82 (13.89)	82.93	0.25	82 (13.89)	82.23	0.43	82 (13.89)	82	0
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	82 (13.89)	82.93	0.25	73 (1.39)	75.6	4.39	73 (1.39)	73	0
	50	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	82 (13.89)	82.97	0.18	82 (13.89)	82.13	0.35	81 (12.5)	81.93	0.25
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	82 (13.89)	82.97	0.18	73 (1.39)	74.93	3.94	73 (1.39)	73	0

Table A.78: *h14*: TransRRGA – Perfect Score is 72

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	77 (1.32)	77	0	76 (0)	76.93	0.25	77 (1.32)	77	0
		1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	77 (1.32)	77	0	76 (0)	76.83	0.38	76 (0)	76.77	0.43
	50	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	76.97	0.18	76 (0)	76.97	0.18	77 (1.32)	77	0
51	20	1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	76.97	0.18	76 (0)	76.97	0.18	76 (0)	76.93	0.25
		0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	76.97	0.18	76 (0)	76.9	0.31	76 (0)	76.93	0.25
	50	1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	76.97	0.18	76 (0)	76.9	0.31	76 (0)	76.73	0.45
		0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	76.93	0.25	76 (0)	76.9	0.31	77 (1.32)	77	0
		1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	76.93	0.25	76 (0)	76.9	0.31	77 (1.32)	77	0

Table A.79: *h15*: BasicRRGA – Perfect Score is 76

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	85 (11.84)	85.97	0.18	85 (11.84)	85	0	85 (11.84)	85	0
		1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	85 (11.84)	85.97	0.18	76 (0)	76.23	0.63	76 (0)	76.23	0.63
	50	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	85 (11.84)	85.97	0.18	85 (11.84)	85	0	85 (11.84)	85	0
51	20	1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	85 (11.84)	85.97	0.18	76 (0)	76.23	0.63	76 (0)	76.23	0.63
		0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	85 (11.84)	85.57	0.5	85 (11.84)	85	0	85 (11.84)	85	0
	50	1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	85 (11.84)	85.57	0.5	76 (0)	76.53	0.9	76 (0)	76.23	0.57
		0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	85 (11.84)	85.47	0.51	85 (11.84)	85	0	85 (11.84)	85	0
		1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	85 (11.84)	85.47	0.51	76 (0)	76.4	0.81	76 (0)	76.2	0.61

Table A.80: *h15*: TransRRGA – Perfect Score is 76

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	73 (2.82)	73.03	0.18	73 (2.82)	73.03	0.18	72 (1.41)	72.93	0.25
		1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	73 (2.82)	73.03	0.18	72 (1.41)	72.83	0.38	72 (1.41)	72.67	0.48
	50	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.97	0.18	73 (2.82)	73	0	72 (1.41)	72.97	0.18
51	20	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.97	0.18	73 (2.82)	73	0	72 (1.41)	72.9	0.31
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.97	0.18	72 (1.41)	72.87	0.35	73 (2.82)	73	0
	50	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.97	0.18	72 (1.41)	72.87	0.35	72 (1.41)	72.87	0.35
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.87	0.35	72 (1.41)	72.83	0.38	72 (1.41)	72.87	0.35
		1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.87	0.35	72 (1.41)	72.83	0.38	72 (1.41)	72.83	0.38

Table A.81: *h16*: BasicRRGA – Perfect Score is 71

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	83 (16.9)	83.4	0.5	82 (15.49)	82.87	0.35	82 (15.49)	82	0
		1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	83 (16.9)	83.4	0.5	72 (1.41)	73.07	1.01	72 (1.41)	73	0.83
	50	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	83 (16.9)	83.6	0.5	82 (15.49)	82.7	0.47	82 (15.49)	82	0
51	20	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	83 (16.9)	83.6	0.5	72 (1.41)	73.33	1.03	72 (1.41)	73.07	0.87
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	83 (16.9)	83.13	0.35	83 (16.9)	83	0	81 (14.08)	81.97	0.18
	50	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	83 (16.9)	83.13	0.35	72 (1.41)	73.03	0.93	72 (1.41)	73.3	0.92
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	83 (16.9)	83.03	0.18	83 (16.9)	83	0	81 (14.08)	81.97	0.18
		1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	83 (16.9)	83.03	0.18	72 (1.41)	73.13	1.01	72 (1.41)	73.17	0.79

Table A.82: *h16*: TransRRGA – Perfect Score is 71

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	76 (2.7)	76.13	0.35	76 (2.7)	76	0	76 (2.7)	76	0
		1	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	76 (2.7)	76.13	0.35	75 (1.35)	75.9	0.31	75 (1.35)	75.73	0.45
	50	0	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	75 (1.35)	75.97	0.18	76 (2.7)	76	0	75 (1.35)	75.97	0.18
		1	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	75 (1.35)	75.97	0.18	76 (2.7)	76	0	75 (1.35)	75.9	0.31
51	20	0	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	76 (2.7)	76	0	76 (2.7)	76	0	76 (2.7)	76	0
		1	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	76 (2.7)	76	0	75 (1.35)	75.97	0.18	75 (1.35)	75.9	0.31
	50	0	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	76 (2.7)	76	0	76 (2.7)	76	0	75 (1.35)	75.97	0.18
		1	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	76 (2.7)	76	0	76 (2.7)	76	0	75 (1.35)	75.97	0.18

Table A.83: *h17*: BasicRRGA – Perfect Score is 74

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	85 (14.86)	85	0	84 (13.51)	84.97	0.18	84 (13.51)	84.63	0.49
		1	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	85 (14.86)	85	0	75 (1.35)	84.67	1.83	75 (1.35)	82	4.66
	50	0	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	85 (14.86)	85	0	84 (13.51)	84.87	0.35	84 (13.51)	84.3	0.47
		1	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	85 (14.86)	85	0	75 (1.35)	84.33	2.54	75 (1.35)	77	4.07
51	20	0	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	85 (14.86)	85	0	85 (14.86)	85	0	84 (13.51)	84.03	0.18
		1	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	85 (14.86)	85	0	85 (14.86)	85	0	75 (1.35)	75.33	1.83
	50	0	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	85 (14.86)	85	0	85 (14.86)	85	0	84 (13.51)	84	0
		1	rnd	75 (1.35)	75	0	75 (1.35)	75	0	75 (1.35)	75	0
			2op	85 (14.86)	85	0	85 (14.86)	85	0	75 (1.35)	75	0

Table A.84: *h17*: TransRRGA – Perfect Score is 74

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	77.07	0.37	76 (0)	76.93	0.25	76 (0)	76.97	0.18
		1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	77.07	0.37	76 (0)	76.93	0.25	76 (0)	76.73	0.45
	50	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	76.93	0.25	76 (0)	76.8	0.41	76 (0)	76.97	0.18
51	20	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	76.87	0.35	76 (0)	76.93	0.25	76 (0)	76.83	0.38
		1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	76.87	0.35	76 (0)	76.93	0.25	76 (0)	76.87	0.35
	50	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	76.83	0.38	76 (0)	76.8	0.41	76 (0)	76.8	0.41
		1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	76 (0)	76.83	0.38	76 (0)	76.8	0.41	76 (0)	76.83	0.38

Table A.85: $h18$: BasicRRGA – Perfect Score is 76

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	84 (10.53)	84	0	84 (10.53)	84	0	84 (10.53)	84	0
		1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	84 (10.53)	84	0	84 (10.53)	84	0	84 (10.53)	84	0
	50	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	84 (10.53)	84	0	84 (10.53)	84	0	84 (10.53)	84	0
51	20	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	84 (10.53)	84	0	84 (10.53)	84	0	84 (10.53)	84	0
		1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	84 (10.53)	84	0	84 (10.53)	84	0	84 (10.53)	84	0
	50	0	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	84 (10.53)	84	0	84 (10.53)	84	0	84 (10.53)	84	0
		1	rnd	76 (0)	76	0	76 (0)	76	0	76 (0)	76	0
			2op	84 (10.53)	84	0	84 (10.53)	84	0	84 (10.53)	84	0

Table A.86: $h18$: TransRRGA – Perfect Score is 76

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
		1	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
	50	0	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
51	20	0	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
		1	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
	50	0	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0

Table A.87: *h19*: BasicRRGA – Perfect Score is 77

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77.73	0.45	77 (0)	77	0	77 (0)	77	0
		1	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77.73	0.45	77 (0)	77	0	77 (0)	77	0
	50	0	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77.7	0.47	77 (0)	77	0	77 (0)	77	0
51	20	0	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77.27	0.45	77 (0)	77	0	77 (0)	77	0
		1	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77.27	0.45	77 (0)	77	0	77 (0)	77	0
	50	0	rnd	77 (0)	77	0	77 (0)	77	0	77 (0)	77	0
			2op	77 (0)	77.1	0.31	77 (0)	77	0	77 (0)	77	0

Table A.88: *h19*: TransRRGA – Perfect Score is 77

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	74 (1.37)	74.93	0.25	74 (1.37)	74.77	0.43	74 (1.37)	74.83	0.38
		1	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	74 (1.37)	74.93	0.25	74 (1.37)	74.77	0.43	74 (1.37)	74.77	0.43
	50	0	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	74 (1.37)	74.73	0.45	74 (1.37)	74.83	0.38	74 (1.37)	74.77	0.43
		1	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	74 (1.37)	74.73	0.45	74 (1.37)	74.83	0.38	74 (1.37)	74.9	0.31
51	20	0	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	74 (1.37)	74.8	0.41	74 (1.37)	74.67	0.48	74 (1.37)	74.63	0.49
		1	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	74 (1.37)	74.8	0.41	74 (1.37)	74.67	0.48	74 (1.37)	74.53	0.51
	50	0	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	74 (1.37)	74.6	0.5	74 (1.37)	74.57	0.5	74 (1.37)	74.57	0.5
		1	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	74 (1.37)	74.6	0.5	74 (1.37)	74.53	0.51	74 (1.37)	74.57	0.5

Table A.89: *h20*: BasicRRGA – Perfect Score is 73

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	80 (9.59)	80.97	0.18	78 (6.85)	78.9	0.48	76 (4.11)	77.63	0.76
		1	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	80 (9.59)	80.97	0.18	74 (1.37)	74	0	74 (1.37)	74	0
	50	0	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	80 (9.59)	80.93	0.25	78 (6.85)	78.8	0.48	76 (4.11)	77.17	0.53
		1	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	80 (9.59)	80.93	0.25	74 (1.37)	74	0	74 (1.37)	74	0
51	20	0	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	80 (9.59)	80.53	0.51	79 (8.22)	79.87	0.35	76 (4.11)	76.93	0.52
		1	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	80 (9.59)	80.53	0.51	74 (1.37)	74	0	74 (1.37)	74	0
	50	0	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	80 (9.59)	80.6	0.5	79 (8.22)	79.9	0.31	76 (4.11)	76.8	0.41
		1	rnd	74 (1.37)	74	0	74 (1.37)	74	0	74 (1.37)	74	0
			2op	80 (9.59)	80.6	0.5	74 (1.37)	74	0	74 (1.37)	74	0

Table A.90: *h20*: TransRRGA – Perfect Score is 73

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.57	0.5	73 (1.39)	73.37	0.49	73 (1.39)	73.2	0.41
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.57	0.5	73 (1.39)	73	0	73 (1.39)	73	0
	50	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.4	0.5	73 (1.39)	73.2	0.41	73 (1.39)	73.23	0.43
51	20	1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.4	0.5	73 (1.39)	73	0	73 (1.39)	73.03	0.18
		0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.13	0.35	73 (1.39)	73.23	0.43	73 (1.39)	73.03	0.18
	50	1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.13	0.35	73 (1.39)	73	0	73 (1.39)	73.03	0.18
		0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.2	0.41	73 (1.39)	73.03	0.18	73 (1.39)	73	0
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	73 (1.39)	73.2	0.41	73 (1.39)	73	0	73 (1.39)	73	0

Table A.91: h_{21} : BasicRRGA – Perfect Score is 72

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	74 (2.78)	74.97	0.18	74 (2.78)	74	0	73 (1.39)	73.93	0.25
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	74 (2.78)	74.97	0.18	73 (1.39)	73	0	73 (1.39)	73	0
	50	0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	74 (2.78)	74.97	0.18	73 (1.39)	73.97	0.18	73 (1.39)	73.97	0.18
51	20	1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	74 (2.78)	74.97	0.18	73 (1.39)	73	0	73 (1.39)	73	0
		0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	74 (2.78)	74.63	0.49	74 (2.78)	74	0	73 (1.39)	73.57	0.5
	50	1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	74 (2.78)	74.63	0.49	73 (1.39)	73	0	73 (1.39)	73	0
		0	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	74 (2.78)	74.73	0.45	74 (2.78)	74	0	73 (1.39)	73.27	0.45
		1	rnd	73 (1.39)	73	0	73 (1.39)	73	0	73 (1.39)	73	0
			2op	74 (2.78)	74.73	0.45	73 (1.39)	73	0	73 (1.39)	73	0

Table A.92: h_{21} : TransRRGA – Perfect Score is 72

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.8	0.41	72 (1.41)	72.5	0.51	72 (1.41)	72.5	0.51
		1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.8	0.41	72 (1.41)	72	0	72 (1.41)	72	0
	50	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.13	0.35	72 (1.41)	72.17	0.38	72 (1.41)	72.07	0.25
51	20	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.13	0.35	72 (1.41)	72.07	0.25	72 (1.41)	72.07	0.25
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.13	0.35	72 (1.41)	72	0	72 (1.41)	72	0
	50	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.13	0.35	72 (1.41)	72	0	72 (1.41)	72	0
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.07	0.25	72 (1.41)	72	0	72 (1.41)	72	0
		1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	72 (1.41)	72.07	0.25	72 (1.41)	72	0	72 (1.41)	72	0

Table A.93: *h22*: BasicRRGA – Perfect Score is 71

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	74 (4.23)	74	0	74 (4.23)	74	0	74 (4.23)	74	0
		1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	74 (4.23)	74	0	74 (4.23)	74	0	74 (4.23)	74	0
	50	0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	74 (4.23)	74	0	74 (4.23)	74	0	74 (4.23)	74	0
51	20	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	74 (4.23)	74	0	74 (4.23)	74	0	73 (2.82)	73.97	0.18
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	74 (4.23)	74	0	74 (4.23)	74	0	72 (1.41)	73.93	0.37
	50	1	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	74 (4.23)	74	0	74 (4.23)	74	0	73 (2.82)	73.73	0.45
		0	rnd	72 (1.41)	72	0	72 (1.41)	72	0	72 (1.41)	72	0
			2op	74 (4.23)	74	0	74 (4.23)	74	0	72 (1.41)	73.47	0.9

Table A.94: *h22*: TransRRGA – Perfect Score is 71

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	77 (2.67)	77	0	77 (2.67)	77	0	77 (2.67)	77	0
		1	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	77 (2.67)	77	0	77 (2.67)	77	0	77 (2.67)	77	0
	50	0	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	77 (2.67)	77	0	77 (2.67)	77	0	77 (2.67)	77	0
51	20	1	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	77 (2.67)	77	0	77 (2.67)	77	0	77 (2.67)	77	0
		0	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	77 (2.67)	77	0	77 (2.67)	77	0	77 (2.67)	77	0
		1	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	77 (2.67)	77	0	77 (2.67)	77	0	77 (2.67)	76.97	0.18
	50	0	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	77 (2.67)	77	0	77 (2.67)	77	0	77 (2.67)	77	0
		1	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	77 (2.67)	77	0	77 (2.67)	77	0	77 (2.67)	77	0

Table A.95: *h23*: BasicRRGA – Perfect Score is 75

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	84 (12)	84.03	0.18	82 (9.33)	82.87	0.35	80 (6.67)	80.87	0.73
		1	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	84 (12)	84.03	0.18	76 (1.33)	76.03	0.18	76 (1.33)	76.13	0.35
	50	0	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	84 (12)	84.03	0.18	81 (8)	82.5	0.57	80 (6.67)	80.7	0.75
		1	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	84 (12)	84.03	0.18	76 (1.33)	76.1	0.31	76 (1.33)	76.3	0.47
51	20	0	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	83 (10.67)	83.93	0.25	83 (10.67)	83.13	0.35	79 (5.33)	79.97	0.67
		1	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	83 (10.67)	83.93	0.25	76 (1.33)	76.03	0.18	76 (1.33)	76.03	0.18
	50	0	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	83 (10.67)	83.97	0.18	83 (10.67)	83.17	0.38	78 (4)	79.7	0.79
		1	rnd	76 (1.33)	76	0	76 (1.33)	76	0	76 (1.33)	76	0
			2op	83 (10.67)	83.97	0.18	76 (1.33)	76.17	0.38	76 (1.33)	76.13	0.35

Table A.96: *h23*: TransRRGA – Perfect Score is 75

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	85 (1.19)	85.47	0.51	85 (1.19)	85.2	0.41	85 (1.19)	85.23	0.43
		1	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	85 (1.19)	85.47	0.51	84 (0)	85.1	0.4	84 (0)	84.97	0.18
	50	0	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	85 (1.19)	85.03	0.18	85 (1.19)	85	0	85 (1.19)	85	0
51	20	0	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	85 (1.19)	85.03	0.18	85 (1.19)	85	0	85 (1.19)	85	0
		1	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	85 (1.19)	85.03	0.18	85 (1.19)	85	0	85 (1.19)	85	0
	50	0	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	85 (1.19)	85	0	85 (1.19)	85	0	85 (1.19)	85	0
		1	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	85 (1.19)	85	0	85 (1.19)	85	0	85 (1.19)	85	0

Table A.97: *h24*: BasicRRGA – Perfect Score is 84

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	95 (13.1)	95	0	94 (11.9)	94.9	0.31	93 (10.71)	93.97	0.18
		1	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	95 (13.1)	95	0	84 (0)	93.97	3.16	84 (0)	84.47	0.51
	50	0	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	95 (13.1)	95	0	94 (11.9)	94.63	0.49	93 (10.71)	93.77	0.43
51	20	0	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	95 (13.1)	95	0	95 (13.1)	95	0	93 (10.71)	93.87	0.35
		1	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	95 (13.1)	95	0	95 (13.1)	95	0	84 (0)	84.57	0.77
	50	0	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	95 (13.1)	95	0	95 (13.1)	95	0	93 (10.71)	93.53	0.51
		1	rnd	84 (0)	84	0	84 (0)	84	0	84 (0)	84	0
			2op	95 (13.1)	95	0	95 (13.1)	95	0	84 (0)	84.37	0.56

Table A.98: *h24*: TransRRGA – Perfect Score is 84

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82.03	0.18	82 (2.5)	82.03	0.18	82 (2.5)	82	0
	50	1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82.03	0.18	82 (2.5)	82.03	0.18	82 (2.5)	82	0
		0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82	0	82 (2.5)	82	0	82 (2.5)	82	0
51	20	0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82	0	82 (2.5)	82	0	82 (2.5)	82	0
	50	1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82	0	82 (2.5)	82	0	82 (2.5)	82	0
		0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82	0	82 (2.5)	82	0	82 (2.5)	82	0

Table A.99: *h25*: BasicRRGA – Perfect Score is 80

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	92 (15)	92.7	0.47	92 (15)	92	0	91 (13.75)	91.97	0.18
		1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
	2op	92 (15)	92.7	0.47	81 (1.25)	81.6	0.81	81 (1.25)	81.67	0.84		
	50	0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	92 (15)	92.7	0.47	92 (15)	92	0	91 (13.75)	91.83	0.38
51	20	0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	92 (15)	92.27	0.45	92 (15)	92	0	91 (13.75)	91.3	0.47
		1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
	2op	92 (15)	92.27	0.45	81 (1.25)	81.77	1.01	81 (1.25)	81.73	0.83		
	50	0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	92 (15)	92.27	0.45	92 (15)	92	0	91 (13.75)	91.2	0.41
51	50	1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	92 (15)	92.27	0.45	81 (1.25)	81.73	0.87	81 (1.25)	81.5	0.68

Table A.100: *h25*: TransRRGA – Perfect Score is 80

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82.03	0.18	82 (2.5)	82.03	0.18	82 (2.5)	82	0
		1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82.03	0.18	82 (2.5)	82	0	81 (1.25)	81.93	0.25
	50	0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82	0	82 (2.5)	82	0	82 (2.5)	82	0
51	20	1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82	0	82 (2.5)	82	0	82 (2.5)	82	0
		0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82	0	82 (2.5)	82	0	82 (2.5)	82	0
	50	1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82	0	82 (2.5)	82	0	82 (2.5)	82	0
		0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82	0	82 (2.5)	82	0	82 (2.5)	82	0
		1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	82 (2.5)	82	0	82 (2.5)	82	0	82 (2.5)	82	0

Table A.101: *h26*: BasicRRGA – Perfect Score is 80

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	94 (17.5)	94.83	0.38	93 (16.25)	93.8	0.41	93 (16.25)	93.07	0.25
		1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	94 (17.5)	94.83	0.38	81 (1.25)	83.03	1.1	81 (1.25)	82.43	1.07
	50	0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	94 (17.5)	94.6	0.5	93 (16.25)	93.6	0.5	92 (15)	92.97	0.18
51	20	1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	94 (17.5)	94.6	0.5	81 (1.25)	82.43	1.14	81 (1.25)	82.47	1.25
		0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	94 (17.5)	94.07	0.25	94 (17.5)	94	0	93 (16.25)	93	0
	50	1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	94 (17.5)	94.07	0.25	81 (1.25)	83.23	1.04	81 (1.25)	82.9	1.27
		0	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	94 (17.5)	94.13	0.35	94 (17.5)	94	0	93 (16.25)	93	0
		1	rnd	81 (1.25)	81	0	81 (1.25)	81	0	81 (1.25)	81	0
			2op	94 (17.5)	94.13	0.35	81 (1.25)	82.9	1.24	81 (1.25)	82.5	1.22

Table A.102: *h26*: TransRRGA – Perfect Score is 80

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	84 (1.2)	84.83	0.38	84 (1.2)	84.93	0.25	84 (1.2)	85	0.26
		1	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	84 (1.2)	84.83	0.38	84 (1.2)	84.9	0.31	84 (1.2)	84.73	0.52
	50	0	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	85 (2.41)	85	0	84 (1.2)	84.97	0.18	85 (2.41)	85	0
51	20	1	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	85 (2.41)	85	0	84 (1.2)	84.97	0.18	84 (1.2)	84.9	0.31
		0	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	84 (1.2)	84.93	0.25	85 (2.41)	85	0	84 (1.2)	84.97	0.18
	50	1	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	84 (1.2)	84.93	0.25	85 (2.41)	85	0	84 (1.2)	84.97	0.18
		0	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	84 (1.2)	84.97	0.18	84 (1.2)	84.97	0.18	84 (1.2)	84.9	0.31
		1	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	84 (1.2)	84.97	0.18	84 (1.2)	84.97	0.18	84 (1.2)	84.9	0.31

Table A.103: *h27*: BasicRRGA – Perfect Score is 83

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	93 (12.05)	93	0	92 (10.84)	92.3	0.47	92 (10.84)	92	0
		1	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	93 (12.05)	93	0	84 (1.2)	86.87	3.38	84 (1.2)	85.07	0.37
	50	0	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	93 (12.05)	93	0	92 (10.84)	92.07	0.25	91 (9.64)	91.93	0.25
51	20	1	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	93 (12.05)	93	0	84 (1.2)	85.5	1.59	84 (1.2)	85.2	0.85
		0	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	93 (12.05)	93	0	92 (10.84)	92.97	0.18	91 (9.64)	91.97	0.18
	50	1	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	93 (12.05)	93	0	92 (10.84)	92.97	0.18	84 (1.2)	85.2	0.76
		0	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	93 (12.05)	93	0	92 (10.84)	92.97	0.18	91 (9.64)	91.93	0.25
		1	rnd	84 (1.2)	84	0	84 (1.2)	84	0	84 (1.2)	84	0
			2op	93 (12.05)	93	0	85 (2.41)	92.73	1.46	84 (1.2)	85.13	0.57

Table A.104: *h27*: TransRRGA – Perfect Score is 83

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	82 (1.23)	82.93	0.25	82 (1.23)	82.77	0.43	82 (1.23)	82.97	0.18
		1	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	82 (1.23)	82.93	0.25	82 (1.23)	82.83	0.38	82 (1.23)	82.7	0.47
	50	0	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	82 (1.23)	82.9	0.31	82 (1.23)	82.87	0.35	82 (1.23)	82.97	0.18
		1	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	82 (1.23)	82.9	0.31	82 (1.23)	82.87	0.35	82 (1.23)	82.87	0.35
51	20	0	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	82 (1.23)	82.8	0.41	82 (1.23)	82.9	0.31	83 (2.47)	83	0
		1	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	82 (1.23)	82.8	0.41	82 (1.23)	82.9	0.31	83 (2.47)	83	0
	50	0	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	82 (1.23)	82.87	0.35	82 (1.23)	82.93	0.25	82 (1.23)	82.87	0.35
		1	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	82 (1.23)	82.87	0.35	82 (1.23)	82.83	0.38	82 (1.23)	82.87	0.35

Table A.105: *h28*: BasicRRGA – Perfect Score is 81

Parameters				Basic			after 1000			after 100		
Pp	Mt	Me	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	0	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	88 (8.64)	88.33	0.48	88 (8.64)	88	0	88 (8.64)	88	0
		1	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	88 (8.64)	88.33	0.48	82 (1.23)	82.3	0.47	82 (1.23)	82.3	0.47
	50	0	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	88 (8.64)	88.63	0.49	88 (8.64)	88	0	88 (8.64)	88	0
		1	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	88 (8.64)	88.63	0.49	82 (1.23)	82.27	0.45	82 (1.23)	82.27	0.52
51	20	0	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	88 (8.64)	88	0	88 (8.64)	88	0	88 (8.64)	88	0
		1	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	88 (8.64)	88	0	82 (1.23)	82.17	0.38	82 (1.23)	82.17	0.38
	50	0	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	88 (8.64)	88	0	88 (8.64)	88	0	87 (7.41)	87.97	0.18
		1	rnd	82 (1.23)	82	0	82 (1.23)	82	0	82 (1.23)	82	0
			2op	88 (8.64)	88	0	82 (1.23)	82.2	0.41	82 (1.23)	82.23	0.43

Table A.106: *h28*: TransRRGA – Perfect Score is 81

A.3 Graph Colouring Problem

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6	6.93	0.25	6	6.9	0.31	6	6.73	0.45	6	6.33	0.48
		2op	7	7	0	7	7	0	6	6.93	0.25	6	6.53	0.51
	50	rnd	6	6.5	0.51	6	6.6	0.5	6	6.3	0.47	6	6.03	0.18
		2op	6	6.97	0.18	6	6.87	0.35	6	6.8	0.41	6	6.1	0.31
51	20	rnd	6	6.67	0.48	6	6.67	0.48	6	6.77	0.43	6	6.53	0.51
		2op	6	6.93	0.25	6	6.93	0.25	6	6.9	0.31	6	6.73	0.45
	50	rnd	6	6	0	6	6	0	6	6	0	6	6	0
		2op	6	6	0	6	6	0	6	6	0	6	6.07	0.25

Table A.107: *DSJC125.1*: basicRR – Lower Bound is 5

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7	7	0	7	7	0	7	7	0	6	6.87	0.35
		2op	7	7	0	7	7	0	7	7	0	6	6.97	0.18
	50	rnd	7	7	0	7	7	0	6	6.97	0.18	6	6.93	0.25
		2op	7	7	0	7	7	0	7	7	0	6	6.8	0.41
51	20	rnd	7	7	0	7	7	0	7	7	0	6	6.97	0.18
		2op	7	7	0	7	7	0	7	7	0	7	7	0
	50	rnd	7	7	0	7	7	0	7	7	0	6	6.77	0.43
		2op	7	7	0	7	7	0	7	7	0	6	6.97	0.18

Table A.108: *DSJC125.1*: transRR – Lower Bound is 5

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	20	21.4	0.56	20	21.03	0.41	20	20.4	0.5	20	20.43	0.5
		2op	21	21.23	0.43	20	21	0.26	20	20.67	0.48	19	20.63	0.56
	50	rnd	20	21.13	0.43	20	20.63	0.49	19	20.33	0.55	19	20.1	0.4
		2op	20	20.77	0.57	20	20.63	0.49	19	20.23	0.5	19	20.2	0.48
51	20	rnd	20	21.1	0.61	20	21.1	0.61	20	20.9	0.48	20	20.57	0.5
		2op	20	21.07	0.52	20	21.07	0.52	20	20.8	0.55	20	20.33	0.48
	50	rnd	20	20.83	0.38	20	20.83	0.38	20	20.3	0.47	19	20.13	0.43
		2op	20	20.6	0.5	20	20.6	0.5	19	20.13	0.43	20	20.17	0.38

Table A.109: *DSJC125.5*: basicRR – Lower Bound is 17

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22	22.53	0.51	21	21.9	0.48	21	21.5	0.51	20	20.93	0.25
		2op	21	21.97	0.18	21	21.93	0.25	21	21.4	0.5	20	20.93	0.25
	50	rnd	21	22.3	0.53	21	21.87	0.35	21	21.53	0.51	20	20.7	0.47
		2op	21	21.93	0.25	21	21.83	0.38	20	21.3	0.53	20	20.77	0.43
51	20	rnd	21	22.13	0.43	21	22.13	0.43	21	21.77	0.43	20	21.1	0.4
		2op	21	21.97	0.18	21	21.97	0.18	21	21.7	0.47	20	20.93	0.37
	50	rnd	21	21.97	0.32	21	21.97	0.32	21	21.67	0.48	20	21.1	0.4
		2op	22	22	0	22	22	0	20	21.53	0.57	20	21.07	0.37

Table A.110: *DSJC125.5*: transRR – Lower Bound is 17

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46	47.63	0.72	45	47.13	0.86	46	46.97	0.61	45	45.93	0.52
		2op	46	47.8	0.66	46	47.13	0.73	45	46.73	0.74	45	45.67	0.55
	50	rnd	46	47.23	0.9	45	46.67	0.92	45	46.53	0.57	45	45.6	0.5
		2op	46	47.3	0.7	46	46.87	0.63	45	46.43	0.73	45	45.6	0.5
51	20	rnd	46	47.37	0.89	46	47.37	0.89	45	47.23	0.9	46	47	0.83
		2op	46	47.33	0.76	46	47.33	0.76	46	46.97	0.67	46	47.27	0.58
	50	rnd	44	46.2	0.85	44	46.2	0.85	45	46.2	0.71	45	46.2	0.61
		2op	46	46.9	0.55	46	46.9	0.55	45	46.47	0.73	45	46.4	0.72

Table A.111: *DSJC125.9*: basicRR – Lower Bound is 44

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	51	52.5	0.9	49	50.87	0.9	48	49.67	0.84	46	47.2	0.76
		2op	48	48.97	0.18	48	48.83	0.38	47	48.6	0.56	46	47.17	0.59
	50	rnd	51	52.13	0.82	49	50.8	0.66	48	49.63	0.81	46	47.17	0.65
		2op	48	48.97	0.18	48	48.77	0.43	48	48.4	0.5	46	47.43	0.57
51	20	rnd	50	51.87	0.97	50	51.87	0.97	49	49.93	0.74	47	48.6	0.89
		2op	49	49	0	49	49	0	48	48.73	0.45	47	48.13	0.43
	50	rnd	49	51.53	0.86	49	51.53	0.86	48	49.73	0.69	48	48.53	0.78
		2op	49	49	0	49	49	0	48	48.73	0.45	47	48.13	0.51

Table A.112: *DSJC125.9*: transRR – Lower Bound is 44

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11	11	0	11	11	0	11	11	0	10	10.97	0.18
		2op	11	11	0	11	11	0	11	11	0	10	10.87	0.35
	50	rnd	11	11	0	11	11	0	11	11	0	10	10.83	0.38
		2op	10	10.97	0.18	11	11	0	10	10.97	0.18	10	10.97	0.18
51	20	rnd	11	11	0	11	11	0	11	11	0	11	11	0
		2op	11	11	0	11	11	0	11	11	0	11	11	0
	50	rnd	11	11	0	11	11	0	10	10.97	0.18	11	11	0
		2op	11	11	0	11	11	0	10	10.93	0.25	10	10.93	0.25

Table A.113: *DSJC250.1*: basicRR – Lower Bound is 4

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11	11.73	0.45	11	11.23	0.43	11	11	0	11	11	0
		2op	11	11	0	11	11	0	11	11	0	11	11	0
	50	rnd	11	11.33	0.48	11	11.13	0.35	11	11.03	0.18	11	11	0
		2op	11	11	0	11	11	0	11	11	0	10	10.97	0.18
51	20	rnd	11	11	0	11	11	0	11	11	0	11	11	0
		2op	11	11	0	11	11	0	11	11	0	11	11	0
	50	rnd	11	11.03	0.18	11	11.03	0.18	11	11	0	11	11	0
		2op	11	11	0	11	11	0	11	11	0	11	11	0

Table A.114: *DSJC250.1*: transRR – Lower Bound is 4

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	37	37.73	0.45	37	37.43	0.5	37	37.23	0.43	37	37.17	0.38
		2op	36	37.37	0.56	36	37.17	0.59	36	37.03	0.32	36	37.1	0.48
	50	rnd	36	37.43	0.63	36	37.17	0.53	36	36.73	0.45	35	36.77	0.5
		2op	36	37.13	0.78	36	36.8	0.55	36	36.53	0.51	36	36.83	0.38
51	20	rnd	37	37.63	0.56	37	37.63	0.56	36	37.07	0.52	36	36.73	0.45
		2op	36	37.43	0.57	36	37.43	0.57	36	36.97	0.49	35	36.6	0.56
	50	rnd	36	36.97	0.67	36	36.97	0.67	35	36.2	0.55	36	36.43	0.5
		2op	35	36.73	0.64	35	36.73	0.64	35	36.03	0.49	35	36.07	0.64

Table A.115: *DSJC250.5*: basicRR – Lower Bound is 26

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38	38.67	0.48	38	38.57	0.5	36	37.77	0.5	37	37.57	0.5
		2op	37	37.97	0.18	37	37.9	0.31	37	37.53	0.51	37	37.3	0.47
	50	rnd	37	38.57	0.57	37	38.17	0.46	37	37.63	0.61	37	37.07	0.25
		2op	37	37.97	0.18	37	37.97	0.18	36	37.17	0.46	36	36.9	0.4
51	20	rnd	37	38.23	0.63	37	38.23	0.63	37	37.9	0.48	37	37.4	0.5
		2op	37	37.97	0.18	37	37.97	0.18	37	37.67	0.48	36	37.17	0.46
	50	rnd	37	38.1	0.48	37	38.1	0.48	37	37.77	0.5	36	37.03	0.41
		2op	38	38	0	38	38	0	37	37.63	0.49	36	36.93	0.37

Table A.116: *DSJC250.5*: transRR – Lower Bound is 26

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	84	86.5	1.48	83	85.6	1.28	80	83.8	1.27	80	83.03	1.45
		2op	83	85.57	0.73	83	84.7	0.99	82	83.87	0.97	81	83.3	1.15
	50	rnd	83	85.87	1.28	82	84.53	1.25	80	82.4	1.04	80	82.07	1.46
		2op	82	85.13	1.31	83	84.2	0.85	80	82.67	1.21	80	81.97	0.89
51	20	rnd	83	85.87	1.28	83	85.87	1.28	82	84.8	1.27	81	84.37	1.33
		2op	84	85.13	0.68	84	85.13	0.68	83	84.73	0.64	83	84.67	0.76
	50	rnd	81	84.17	1.05	81	84.17	1.05	81	83.07	1.17	81	82.27	0.98
		2op	82	84.47	0.97	82	84.47	0.97	82	83.8	1	81	83.03	1.38

Table A.117: *DSJC250.9*: basicRR – Lower Bound is 72

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	88	91.33	1.45	88	89.9	0.99	85	87.7	1.18	83	85.23	1.04
		2op	87	87.5	0.51	85	87.17	0.59	83	86	1.14	82	84.4	1.1
	50	rnd	89	90.9	1.03	88	89.4	0.89	85	87.73	1.2	82	84.33	1.06
		2op	87	87.5	0.51	86	87.13	0.51	84	86	1.2	81	83.37	1.03
51	20	rnd	87	90.2	1.13	87	90.2	1.13	87	88.47	0.73	85	87.1	1.18
		2op	87	87.33	0.48	87	87.33	0.48	86	87	0.26	84	86.1	0.76
	50	rnd	88	89.73	0.94	88	89.73	0.94	87	88.4	0.81	86	87.1	0.66
		2op	87	87.4	0.5	87	87.4	0.5	84	86.77	0.63	85	86.13	0.73

Table A.118: *DSJC250.9*: transRR – Lower Bound is 72

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	41	42.1	0.48	41	41.83	0.53	40	41.73	0.52	41	41.87	0.35
		2op	41	42.4	0.62	41	41.8	0.55	41	41.67	0.48	41	41.8	0.41
	50	rnd	41	42	0.69	41	41.8	0.41	40	41.13	0.57	41	41.6	0.5
		2op	39	41.77	0.73	40	41.33	0.61	41	41.27	0.45	40	41.27	0.58
51	20	rnd	40	42.2	0.76	40	42.2	0.76	40	41.53	0.63	40	41.1	0.48
		2op	41	42.2	0.61	41	42.2	0.61	40	41.43	0.57	40	41.23	0.5
	50	rnd	40	41.37	0.56	40	41.37	0.56	39	40.6	0.62	39	40.8	0.48
		2op	40	41.2	0.71	40	41.2	0.71	40	40.7	0.47	39	40.83	0.46

Table A.119: *flat300*₂₈₀: basicRR – Lower Bound is 28

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	42	43.17	0.65	42	42.7	0.47	41	41.93	0.25	41	41.87	0.35
		2op	42	42.83	0.38	41	42.6	0.56	41	41.93	0.37	41	41.97	0.18
	50	rnd	42	42.77	0.57	42	42.43	0.5	41	41.63	0.49	41	41.67	0.48
		2op	42	42.67	0.48	41	42.27	0.69	40	41.5	0.57	41	41.43	0.5
51	20	rnd	42	42.87	0.43	42	42.87	0.43	41	42.27	0.58	40	41.7	0.53
		2op	42	42.9	0.31	42	42.9	0.31	41	42.07	0.45	41	41.63	0.49
	50	rnd	42	42.6	0.5	42	42.6	0.5	41	41.97	0.41	41	41.27	0.45
		2op	42	42.4	0.5	42	42.4	0.5	41	41.77	0.5	40	41.07	0.45

Table A.120: *flat300*₂₈₀: transRR – Lower Bound is 28

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12	12.93	0.25	12	12.9	0.31	12	12.9	0.31	12	12.7	0.47
		2op	12	12.83	0.38	12	12.73	0.45	12	12.8	0.41	12	12.83	0.38
	50	rnd	12	12.87	0.35	12	12.7	0.47	12	12.63	0.49	12	12.43	0.5
		2op	12	12.83	0.38	12	12.73	0.45	12	12.7	0.47	12	12.23	0.43
51	20	rnd	12	12.97	0.18	12	12.97	0.18	12	12.77	0.43	12	12.63	0.49
		2op	12	12.7	0.47	12	12.7	0.47	12	12.6	0.5	12	12.67	0.48
	50	rnd	12	12.8	0.41	12	12.8	0.41	12	12.87	0.35	12	12.67	0.48
		2op	12	12.83	0.38	12	12.83	0.38	12	12.67	0.48	12	12.47	0.51

Table A.121: *queen10*₁₀: basicRR – Lower Bound is 11

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13	13.3	0.47	13	13	0	12	12.97	0.18	12	12.93	0.25
		2op	12	12.97	0.18	13	13	0	12	12.9	0.31	12	12.93	0.25
	50	rnd	13	13.07	0.25	13	13	0	12	12.97	0.18	12	12.8	0.41
		2op	12	12.83	0.38	12	12.67	0.48	12	12.83	0.38	12	12.9	0.31
51	20	rnd	13	13.13	0.35	13	13.13	0.35	12	12.93	0.25	12	12.87	0.35
		2op	12	12.9	0.31	12	12.9	0.31	12	12.83	0.38	12	12.73	0.45
	50	rnd	13	13	0	13	13	0	12	12.87	0.35	12	12.77	0.43
		2op	12	12.5	0.51	12	12.5	0.51	12	12.63	0.49	12	12.73	0.45

Table A.122: *queen10*₁₀: transRR – Lower Bound is 11

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14	14.3	0.47	14	14	0	13	13.97	0.18	14	14	0
		2op	14	14	0	14	14	0	14	14	0	13	13.97	0.18
	50	rnd	14	14	0	14	14	0	13	13.97	0.18	14	14	0
		2op	13	13.97	0.18	14	14	0	13	13.97	0.18	13	13.97	0.18
51	20	rnd	14	14.27	0.45	14	14.27	0.45	14	14.03	0.18	14	14	0
		2op	14	14	0	14	14	0	14	14	0	13	13.97	0.18
	50	rnd	13	13.97	0.18	13	13.97	0.18	13	13.93	0.25	13	13.97	0.18
		2op	14	14	0	14	14	0	13	13.93	0.25	14	14	0

Table A.123: *queen11₁*: basicRR – Lower Bound is 11

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14	14.93	0.25	14	14.57	0.5	14	14.17	0.38	14	14	0
		2op	14	14	0	14	14	0	14	14	0	14	14	0
	50	rnd	14	14.83	0.38	14	14.2	0.41	14	14	0	14	14	0
		2op	14	14	0	13	13.97	0.18	13	13.97	0.18	14	14	0
51	20	rnd	14	14.87	0.35	14	14.87	0.35	14	14	0	14	14	0
		2op	14	14	0	14	14	0	14	14	0	14	14	0
	50	rnd	14	14.63	0.49	14	14.63	0.49	14	14	0	13	13.97	0.18
		2op	14	14	0	14	14	0	13	13.97	0.18	13	13.97	0.18

Table A.124: *queen11₁*: transRR – Lower Bound is 11

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15	15.97	0.18	15	15.67	0.48	15	15.2	0.41	15	15.17	0.38
		2op	15	15.37	0.49	15	15.17	0.38	15	15.2	0.41	15	15.07	0.25
	50	rnd	15	15.53	0.51	15	15.2	0.41	15	15.17	0.38	15	15	0
		2op	15	15.1	0.31	15	15.13	0.35	15	15	0	15	15.03	0.18
51	20	rnd	15	15.93	0.37	15	15.93	0.37	15	15.2	0.41	15	15.03	0.18
		2op	15	15.27	0.45	15	15.27	0.45	15	15.07	0.25	15	15	0
	50	rnd	15	15.23	0.43	15	15.23	0.43	15	15.2	0.41	14	15.03	0.32
		2op	15	15.2	0.41	15	15.2	0.41	15	15.13	0.35	15	15	0

Table A.125: *queen12₁*: basicRR – Lower Bound is 12

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16	16.47	0.51	16	16	0	15	15.93	0.25	15	15.33	0.48
		2op	15	15.67	0.48	15	15.37	0.49	15	15.7	0.47	15	15.4	0.5
	50	rnd	16	16.23	0.43	15	15.93	0.25	15	15.57	0.5	15	15.23	0.43
		2op	15	15.4	0.5	15	15.27	0.45	15	15.4	0.5	15	15.37	0.49
51	20	rnd	16	16.23	0.43	16	16.23	0.43	15	15.7	0.47	15	15.27	0.45
		2op	15	15.57	0.5	15	15.57	0.5	15	15.4	0.5	15	15.1	0.31
	50	rnd	15	16.03	0.32	15	16.03	0.32	15	15.37	0.49	15	15.17	0.38
		2op	15	15.1	0.31	15	15.1	0.31	15	15	0	15	15.03	0.18

Table A.126: *queen12₁*: transRR – Lower Bound is 12

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16	17.33	0.55	16	16.97	0.18	16	16.93	0.25	16	16.83	0.38
		2op	16	16.9	0.31	16	16.83	0.38	16	16.9	0.31	16	16.9	0.31
	50	rnd	17	17	0	16	16.9	0.31	16	16.63	0.49	16	16.57	0.5
		2op	16	16.87	0.35	16	16.63	0.49	16	16.7	0.47	16	16.63	0.49
51	20	rnd	16	17.1	0.48	16	17.1	0.48	16	16.83	0.38	16	16.8	0.41
		2op	16	16.93	0.25	16	16.93	0.25	16	16.67	0.48	16	16.6	0.5
	50	rnd	16	16.73	0.45	16	16.73	0.45	16	16.83	0.38	16	16.4	0.5
		2op	16	16.9	0.31	16	16.9	0.31	16	16.73	0.45	16	16.7	0.47

Table A.127: *queen13₁₃*: basicRR – Lower Bound is 13

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17	17.97	0.32	17	17.37	0.49	16	16.97	0.18	16	16.83	0.38
		2op	16	16.97	0.18	16	16.97	0.18	16	16.93	0.25	16	16.97	0.18
	50	rnd	17	17.9	0.31	17	17.03	0.18	16	16.9	0.31	16	16.83	0.38
		2op	16	16.9	0.31	16	16.9	0.31	16	16.97	0.18	16	16.93	0.25
51	20	rnd	17	17.83	0.38	17	17.83	0.38	16	16.97	0.18	16	16.7	0.47
		2op	16	16.97	0.18	16	16.97	0.18	16	16.87	0.35	16	16.67	0.48
	50	rnd	17	17.57	0.5	17	17.57	0.5	17	17	0	16	16.87	0.35
		2op	16	16.77	0.43	16	16.77	0.43	16	16.63	0.49	16	16.53	0.51

Table A.128: *queen13₁₃*: transRR – Lower Bound is 13

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18	19	0.26	18	18.3	0.47	18	18	0	18	18	0
		2op	18	18.03	0.18	18	18	0	18	18	0	17	17.97	0.18
	50	rnd	18	18.13	0.35	18	18	0	18	18	0	18	18	0
		2op	17	17.9	0.31	17	17.9	0.31	18	18	0	18	18	0
51	20	rnd	18	18.67	0.48	18	18.67	0.48	17	17.97	0.18	18	18	0
		2op	17	17.97	0.18	17	17.97	0.18	18	18	0	17	17.97	0.18
	50	rnd	18	18	0	18	18	0	17	17.9	0.31	17	17.97	0.18
		2op	17	17.97	0.18	17	17.97	0.18	17	17.97	0.18	17	17.97	0.18

Table A.129: *queen14₁₄*: basicRR – Lower Bound is 14

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19	19.4	0.5	18	18.93	0.25	18	18.17	0.38	18	18	0
		2op	18	18.27	0.45	18	18	0	18	18	0	18	18	0
	50	rnd	18	19.03	0.32	18	18.9	0.31	17	17.97	0.18	18	18	0
		2op	18	18	0	17	18	0.26	18	18	0	17	17.97	0.18
51	20	rnd	19	19.2	0.41	19	19.2	0.41	18	18.43	0.5	17	17.97	0.18
		2op	18	18.03	0.18	18	18.03	0.18	18	18	0	18	18	0
	50	rnd	18	18.97	0.32	18	18.97	0.32	17	18.07	0.37	17	17.97	0.18
		2op	17	17.97	0.18	17	17.97	0.18	17	17.9	0.31	18	18	0

Table A.130: *queen14₁₄*: transRR – Lower Bound is 14

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19	20.13	0.51	19	19.8	0.41	19	19.13	0.35	19	19	0
		2op	19	19.2	0.41	19	19.07	0.25	19	19	0	19	19	0
	50	rnd	19	19.73	0.45	19	19.23	0.43	19	19.03	0.18	19	19	0
		2op	19	19.13	0.35	19	19	0	19	19	0	19	19	0
51	20	rnd	19	19.87	0.57	19	19.87	0.57	19	19.2	0.41	18	18.97	0.18
		2op	19	19.37	0.49	19	19.37	0.49	19	19.1	0.31	19	19	0
	50	rnd	19	19.07	0.25	19	19.07	0.25	19	19.03	0.18	19	19	0
		2op	19	19	0	19	19	0	19	19	0	19	19	0

Table A.131: *queen15₁₅*: basicRR – Lower Bound is 15

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21	21.03	0.18	20	20.37	0.49	19	19.7	0.47	19	19.33	0.48
		2op	19	19.77	0.43	19	19.67	0.48	19	19.5	0.51	19	19.17	0.38
	50	rnd	20	20.87	0.35	20	20.07	0.25	19	19.7	0.47	19	19.1	0.31
		2op	19	19.47	0.51	19	19.2	0.41	19	19.4	0.5	19	19.13	0.35
51	20	rnd	20	20.87	0.35	20	20.87	0.35	20	20	0	19	19.2	0.41
		2op	19	19.67	0.48	19	19.67	0.48	19	19.33	0.48	19	19	0
	50	rnd	20	20.4	0.5	20	20.4	0.5	19	19.77	0.43	19	19.03	0.18
		2op	19	19.17	0.38	19	19.17	0.38	19	19	0	19	19	0

Table A.132: *queen15₁₅*: transRR – Lower Bound is 15

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	71	72.83	0.7	70	71.07	0.87	68	69.83	0.87	68	68.7	0.53
		2op	69	70.37	0.56	69	69.9	0.48	68	68.9	0.55	67	68.3	0.6
	50	rnd	69	71.17	0.87	68	69.93	0.69	68	68.97	0.56	67	68.2	0.48
		2op	69	69.83	0.59	68	69.43	0.57	68	68.37	0.49	67	68.03	0.32
51	20	rnd	70	71.57	0.86	70	71.57	0.86	70	70.73	0.69	69	69.83	0.79
		2op	69	70.17	0.59	69	70.17	0.59	69	69.47	0.51	68	69.03	0.56
	50	rnd	68	69.03	0.61	68	69.03	0.61	68	68.6	0.56	67	68.23	0.57
		2op	68	68.5	0.63	68	68.5	0.63	67	68.17	0.46	67	67.97	0.41

Table A.133: *r250.5*: basicRR – Lower Bound is 65

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	75	75.8	0.48	74	75	0.59	72	73.6	0.72	69	70.4	0.56
		2op	70	71.27	0.58	70	70.8	0.48	69	70.23	0.63	68	69.03	0.49
	50	rnd	75	75.47	0.51	73	74.73	0.64	72	73.67	0.66	69	70.3	0.53
		2op	70	71.13	0.51	70	70.73	0.45	69	70.13	0.43	68	69	0.59
51	20	rnd	74	75.07	0.58	74	75.07	0.58	73	74	0.53	71	72.27	0.58
		2op	70	70.83	0.53	70	70.83	0.53	70	70.23	0.43	69	69.67	0.55
	50	rnd	74	74.97	0.56	74	74.97	0.56	73	74.03	0.49	72	72.4	0.56
		2op	70	70.57	0.5	70	70.57	0.5	69	70.1	0.48	69	69.67	0.48

Table A.134: *r250.5*: transRR – Lower Bound is 65

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17	17.8	0.41	17	17.7	0.47	17	17.63	0.49	17	17.1	0.31
		2op	17	17.9	0.31	17	17.8	0.41	17	17.6	0.5	17	17.17	0.38
	50	rnd	17	17.83	0.38	17	17.67	0.48	17	17.27	0.45	17	17	0
		2op	17	17.63	0.49	17	17.47	0.51	17	17.13	0.35	17	17	0
51	20	rnd	17	17.93	0.25	17	17.93	0.25	17	17.73	0.45	17	17.53	0.51
		2op	17	17.8	0.41	17	17.8	0.41	17	17.8	0.41	17	17.43	0.5
	50	rnd	17	17.4	0.5	17	17.4	0.5	17	17.3	0.47	17	17.2	0.41
		2op	17	17.57	0.5	17	17.57	0.5	17	17.37	0.49	17	17.13	0.35

Table A.135: *DSJC500.1*: basicRR – Lower Bound is 9

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18	18.07	0.25	18	18	0	18	18	0	17	17.8	0.41
		2op	18	18	0	18	18	0	18	18	0	17	17.83	0.38
	50	rnd	18	18	0	18	18	0	17	17.93	0.25	17	17.93	0.25
		2op	18	18	0	18	18	0	18	18	0	17	17.83	0.38
51	20	rnd	18	18	0	18	18	0	18	18	0	17	17.93	0.25
		2op	18	18	0	18	18	0	18	18	0	18	18	0
	50	rnd	18	18	0	18	18	0	17	17.97	0.18	17	17.9	0.31
		2op	18	18	0	18	18	0	18	18	0	17	17.8	0.41

Table A.136: *DSJC500.1*: transRR – Lower Bound is 9

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	66	66.87	0.73	65	66.4	0.67	66	66.43	0.5	66	66.9	0.31
		2op	65	66.83	0.79	65	66.5	0.57	65	66.43	0.57	66	66.77	0.43
	50	rnd	65	66.3	0.6	65	66.17	0.53	65	65.83	0.46	65	66.37	0.56
		2op	65	66.47	0.68	65	66.17	0.46	65	65.93	0.45	66	66.43	0.5
51	20	rnd	65	66.8	0.71	65	66.8	0.71	65	66.1	0.61	65	66.17	0.46
		2op	65	66.87	0.68	65	66.87	0.68	65	66.4	0.56	65	65.97	0.41
	50	rnd	65	66.07	0.69	65	66.07	0.69	64	65.3	0.6	65	65.77	0.5
		2op	64	65.8	0.92	64	65.8	0.92	65	65.27	0.45	65	65.8	0.41

Table A.137: *DSJC500.5*: basicRR – Lower Bound is 43

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	67	67.97	0.67	66	67.67	0.66	66	67.13	0.57	66	67.17	0.53
		2op	67	67.9	0.31	66	67.63	0.61	66	66.93	0.52	66	66.93	0.25
	50	rnd	67	67.8	0.66	67	67.37	0.49	66	66.83	0.53	66	66.8	0.41
		2op	67	67.7	0.47	67	67.47	0.51	66	66.73	0.45	66	66.7	0.47
51	20	rnd	66	67.7	0.6	66	67.7	0.6	66	67.3	0.53	66	66.87	0.35
		2op	66	67.6	0.56	66	67.6	0.56	66	67.17	0.59	66	66.6	0.5
	50	rnd	66	67.27	0.58	66	67.27	0.58	66	66.87	0.51	66	66.47	0.51
		2op	66	67.4	0.56	66	67.4	0.56	66	66.7	0.53	65	66.2	0.55

Table A.138: *DSJC500.5*: transRR – Lower Bound is 43

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	29	29	0	28	28.97	0.18	29	29	0	29	29	0
		2op	29	29	0	29	29	0	28	28.9	0.31	29	29	0
	50	rnd	28	28.97	0.18	28	28.97	0.18	28	28.9	0.31	29	29	0
		2op	28	28.93	0.25	28	28.93	0.25	28	28.97	0.18	28	28.97	0.18
51	20	rnd	29	29	0	29	29	0	29	29	0	28	28.93	0.25
		2op	29	29	0	29	29	0	29	29	0	28	28.87	0.35
	50	rnd	28	28.97	0.18	28	28.97	0.18	28	28.93	0.25	28	28.83	0.38
		2op	29	29	0	29	29	0	28	28.97	0.18	28	28.8	0.41

Table A.139: *DSJC1000.1*: basicRR – Lower Bound is 10

Parameters			Basic			after 10000			after 1000			after 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	29	29.77	0.43	29	29.53	0.51	29	29.27	0.45	29	29	0
		2op	29	29	0	29	29	0	29	29	0	29	29	0
	50	rnd	29	29.4	0.5	29	29.43	0.5	29	29.2	0.41	28	28.97	0.18
		2op	29	29	0	29	29	0	28	28.97	0.18	29	29	0
51	20	rnd	29	29.47	0.51	29	29.47	0.51	29	29.03	0.18	29	29	0
		2op	29	29	0	29	29	0	29	29	0	29	29	0
	50	rnd	29	29.1	0.31	29	29.1	0.31	29	29	0	29	29	0
		2op	29	29	0	29	29	0	29	29	0	28	28.97	0.18

Table A.140: *DSJC1000.1*: transRR – Lower Bound is 10

A.4 Travelling Salesman Problem: Large Problem Instances

A.4.1 Results With No Post Optimization

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
	5M	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
51	500K	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
	5M	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789

Table A.141: $d1291$: basicRR With No Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	148689	150691.8	148689	150691.8	150852	267258.33	699976	756245.43
		2op	57789	57789	57789	57789	57789	91661.8	482262	571090.53
	5M	rnd	145213	147817.8	186521	206342.97	500832	541296.03	719188	809141.33
		2op	57789	57789	76468	82250.13	344336	378985.9	566915	644450.53
51	500K	rnd	149071	150620.37	149071	150620.37	149071	150620.37	409544	459410.8
		2op	57789	57789	57789	57789	57789	57789	175979	200044.4
	5M	rnd	145058	147527.4	145058	149576.37	307988	362047.1	617907	687466.4
		2op	57789	57789	57789	59035.07	117796	140902.5	463604	530872.97

Table A.142: $d1291$: transRR With No Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
	5M	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
51	500K	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
	5M	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789

Table A.143: $d1291$: basicRR+RS With No Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	148309	150714.63	148309	150714.63	148309	150757.27	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
	5M	rnd	145019	147748.9	145318	148383.47	148092	150750.03	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
51	500K	rnd	149451	150649.53	149451	150649.53	149451	150649.53	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
	5M	rnd	144977	147112.17	144977	147129.03	146344	148327.3	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789

Table A.144: *d1291*: transRR+RS With No Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
	5M	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
51	500K	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
	5M	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789

Table A.145: *d1291*: basicRR+IM With No Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
	5M	rnd	145840	148747.17	145840	148747.17	148558	150701.1	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
51	500K	rnd	150852	150852	150852	150852	150852	150852	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789
	5M	rnd	146763	149128.37	146763	149128.37	146763	149128.37	150852	150852
		2op	57789	57789	57789	57789	57789	57789	57789	57789

Table A.146: *d1291*: transRR+IM With No Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
51	500K	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	201879	205642.13	201879	205642.13	201904	205699.63	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594

Table A.147: *d1655*: basicRR With No Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	193091	197371.47	193091	197371.47	193091	223375.37	586958	636249.8
		2op	70594	70594	70594	70594	70594	86551.1	562905	616054.73
	5M	rnd	183751	189945.8	212149	225637.83	416730	450038.13	622655	689553.2
		2op	70594	70594	90869	96667.17	376213	413053.3	638230	710854.73
51	500K	rnd	191818	196915.77	191818	196915.77	191818	196915.77	352435	400756.87
		2op	70594	70594	70594	70594	70594	70594	186003	206181.77
	5M	rnd	186361	189727.93	186361	191988.33	296717	320996.4	523345	571433.63
		2op	70594	70594	70594	70917.5	134581	152492.53	526048	585563.27

Table A.148: *d1655*: transRR With No Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
51	500K	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	203259	205810.27	203259	205810.27	203259	205829.07	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594

Table A.149: *d1655*: basicRR+RS With No Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	193933	198455.27	193933	198455.27	193933	198794.17	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	187400	190677.93	187888	191704.87	193040	197981.27	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
51	500K	rnd	193163	197157.3	193163	197157.3	193163	197157.3	194720	201326.3
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	184162	189852.03	182292	189421.97	187911	191948.03	194720	201326.3
		2op	70594	70594	70594	70594	70594	70594	70594	70594

Table A.150: *d1655*: transRR+RS With No Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
51	500K	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594

Table A.151: *d1655*: basicRR+IM With No Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	186189	190640.9	186189	190640.9	188067	193557.5	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
51	500K	rnd	206052	206052	206052	206052	206052	206052	206052	206052
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	187856	191875.17	187856	191875.17	187856	191875.17	204231	205991.3
		2op	70594	70594	70594	70594	70594	70594	70594	70594

Table A.152: *d1655*: transRR+IM With No Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	174955723	187977647.8	174955723	187977647.8	174955723	187977647.8	252112553	279322359.7
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	115304195	122865932.4	115304195	122865932.4	139517707	152736301.5	252112553	279322359.7
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
51	500K	rnd	187167372	192884872.4	187167372	192884872.4	187167372	192884872.4	187167372	193455252.9
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	116833869	124656878.1	116833869	124656878.1	116833869	124656878.1	165042886	182419508.8
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134

Table A.153: *dsj1000*: basicRR With No Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	360801045	369029062.5	360801045	369029062.5	368022025	463817294.3	495893428	523453830.8
		2op	20949134	20949134	20949134	20949134	20949134	33794834.43	133682864	157422710.7
	5M	rnd	346474247	352357006.9	285554594	314185017.1	418582041	466020491.5	501392909	521408463.5
		2op	20935929	20948693.83	25299894	26793895.7	82723769	93818733.7	146750884	177378671.9
51	500K	rnd	360698981	368749278.2	360698981	368749278.2	360698981	368749278.2	469790884	510331330.6
		2op	20949134	20949134	20949134	20949134	20949134	20949134	53544994	58932440.07
	5M	rnd	345842368	353753850.8	345842368	357075639.7	279297168	417945097.2	475862012	505961551.1
		2op	20938699	20948786.17	20949134	21260900.07	39201257	45053698.33	112521240	132490125.4

Table A.154: *dsj1000*: transRR With No Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	178311636	187949114.3	178311636	187949114.3	178311636	187949114.3	242126379	274509796.4
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	115491657	122343051.6	115491657	122343051.6	137352063	154253678	242126379	274509796.4
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
51	500K	rnd	186111023	193117020.7	186111023	193117020.7	186111023	193117020.7	186111023	194822683.4
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	113526287	124263363.2	113526287	124263363.2	113526287	124263363.2	159479796	182921385
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134

Table A.155: *dsj1000*: basicRR+RS With No Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	355371097	368193052	355371097	368193052	357263364	373388330.3	399992316	418293651.5
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	337199038	352716557.6	313125497	323721543.1	357263364	373388330.3	399992316	418293651.5
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
51	500K	rnd	361369807	368543689.9	361369807	368543689.9	361369807	368543689.9	374109058	384050005.9
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	344704755	352153193.1	344704755	352048773.4	243653589	345033475.4	374109058	384050005.9
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134

Table A.156: *dsj1000*: transRR+RS With No Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	278248867	285319242.1	278248867	285319242.1	278248867	285319242.1	282409344	300212028.2
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	162238194	168296986.3	162238194	168296986.3	162238194	168296986.3	278427621	299979219.2
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
51	500K	rnd	301734981	309118588.5	301734981	309118588.5	301734981	309118588.5	301734981	309118588.5
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	176470806	181124969.1	176470806	181124969.1	176470806	181124969.1	185861715	267005763.6
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134

Table A.157: *dsj1000*: basicRR+IM With No Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	392065015	398896050.3	392065015	398896050.3	392065015	398896050.3	413999495	433339794.9
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	346961571	357963110.6	346961571	357963110.6	360723884	370574205	413999495	433339794.9
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
51	500K	rnd	403568044	408145152.3	403568044	408145152.3	403568044	408145152.3	403568044	408145152.3
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	354799725	361000963.6	354799725	361000963.6	354799725	361000963.6	387737885	407893312.7
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134

Table A.158: *dsj1000*: transRR+IM With No Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	159331	167577.63	159331	167577.63	159331	167714.63	172735	172735
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	102134	108054.6	102134	108054.6	128228	142634.1	172735	172735
		2op	21672	21672	21672	21672	21672	21672	21672	21672
51	500K	rnd	145758	155504.47	145758	155504.47	145758	155504.47	146125	166045.03
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	99232	105129.77	99232	105129.77	99232	105381.5	145563	165748.27
		2op	21672	21672	21672	21672	21672	21672	21672	21672

Table A.159: $fl1400$: basicRR With No Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	127075	131791.47	127075	131791.47	130759	189001.9	493778	547819.3
		2op	21672	21672	21672	21672	21672	32210.6	182224	221123
	5M	rnd	123193	128889.13	109896	132738.13	276336	313154.23	550954	588009.7
		2op	21672	21672	25424	27630.1	76904	96362.3	203731	264635.1
51	500K	rnd	125200	131696.1	125200	131696.1	125200	131696.1	251587	296642.47
		2op	21672	21672	21672	21672	21672	21672	49076	58509.7
	5M	rnd	121759	128969.2	121759	129807.43	176645	199440.23	411951	457979.77
		2op	21672	21672	21672	22075.17	40220	49156.33	119840	158766.07

Table A.160: $fl1400$: transRR With No Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	161976	167783.37	161976	167783.37	161976	167783.37	172735	172735
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	103991	108330.43	103991	108330.43	128633	142222.1	172735	172735
		2op	21672	21672	21672	21672	21672	21672	21672	21672
51	500K	rnd	149301	156737.47	149301	156737.47	149301	156737.47	149631	166694.17
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	97537	104524.73	97537	104524.73	98093	104583.17	146171	166429.37
		2op	21672	21672	21672	21672	21672	21672	21672	21672

Table A.161: $fl1400$: basicRR+RS With No Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	126096	132545.43	126096	132545.43	126169	133223.93	134642	143539.53
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	123977	129992.07	115061	121566.7	126169	133223.93	134642	143539.53
		2op	21670	21671.93	21672	21672	21672	21672	21672	21672
51	500K	rnd	127490	131886.37	127490	131886.37	127490	131886.37	129025	133829.97
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	124802	129084.03	120750	126432.23	117134	127267.4	129025	133829.97
		2op	21672	21672	21672	21672	21672	21672	21672	21672

Table A.162: $fl1400$: transRR+RS With No Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	172735	172735	172735	172735	172735	172735	172735	172735
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	122751	127269.13	122751	127269.13	122751	129355.47	172735	172735
		2op	21672	21672	21672	21672	21672	21672	21672	21672
51	500K	rnd	169976	172643.03	169976	172643.03	169976	172643.03	169976	172643.03
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	127248	132522.4	127248	132522.4	127248	132522.4	158519	170997.87
		2op	21672	21672	21672	21672	21672	21672	21672	21672

Table A.163: $fl1400$: basicRR+IM With No Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	133857	136846.37	133857	136846.37	133857	136846.37	136967	141983.83
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	125290	127513.47	125290	127513.47	126362	128861.9	136967	141983.83
		2op	21672	21672	21672	21672	21672	21672	21672	21672
51	500K	rnd	137185	139268	137185	139268	137185	139268	137185	139268
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	124485	127518.6	124485	127518.6	124485	127518.6	131813	138106.57
		2op	21672	21672	21672	21672	21672	21672	21672	21672

Table A.164: $fl1400$: transRR+IM With No Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
	5M	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
51	500K	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
	5M	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965

Table A.165: *fl1577*: basicRR With No Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	51304	51304	51304	51304	51304	98834.83	504607	558651.03
		2op	23965	23965	23965	23965	23965	39821.93	301260	361482.53
	5M	rnd	51304	51304	66345	73411.83	299056	356089.8	554281	602664.73
		2op	23918	23962.47	31701	34533.13	189030	206020.3	336632	410417.33
51	500K	rnd	51304	51304	51304	51304	51304	51304	160531	201062.23
		2op	23965	23965	23965	23965	23965	23965	71195	81410.77
	5M	rnd	51304	51304	51304	52113.17	115651	151030.8	450698	487723.67
		2op	23911	23961.1	23947	24629.13	50077	59427.83	264711	315208.23

Table A.166: *fl1577*: transRR With No Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
	5M	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
51	500K	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
	5M	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965

Table A.167: *fl1577*: basicRR+RS With No Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
	5M	rnd	50658	51282.47	50860	51289.2	51304	51304	51304	51304
		2op	23890	23959.13	23965	23965	23965	23965	23965	23965
51	500K	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
	5M	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23959	23964.8	23959	23964.8	23965	23965	23965	23965

Table A.168: *fl1577*: transRR+RS With No Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
	5M	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
51	500K	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
	5M	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965

Table A.169: *fl1577*: basicRR+IM With No Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
	5M	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
51	500K	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965
	5M	rnd	51304	51304	51304	51304	51304	51304	51304	51304
		2op	23965	23965	23965	23965	23965	23965	23965	23965

Table A.170: *fl1577*: transRR+IM With No Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	386383	399215.1	386383	399215.1	386383	399215.1	551030	595544.07
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	233222	241586.3	233222	241586.3	293365	327818.33	551030	595544.07
		2op	62317	62317	62317	62317	62317	62317	62317	62317
51	500K	rnd	384920	393721.9	384920	393721.9	384920	393721.9	384920	405111.17
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	228521	238857.83	228521	238857.83	228521	239162.37	368688	400748.73
		2op	62317	62317	62317	62317	62317	62317	62317	62317

Table A.171: *nrw1379*: basicRR With No Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	412066	424087.47	412066	424087.47	417220	565415.67	622015	665951.1
		2op	62317	62317	62317	62317	62317	91686.63	384640	421307.27
	5M	rnd	393958	402806.37	301226	332530.9	510912	584640.13	641780	673171.47
		2op	62317	62317	78840	83563	252770	300892.53	411639	463423.17
51	500K	rnd	410915	425708.8	410915	425708.8	410915	425708.8	614879	658447
		2op	62317	62317	62317	62317	62317	62317	153037	171136.07
	5M	rnd	388673	403896.37	388307	410168.4	277288	511591.73	592536	639513.53
		2op	62317	62317	62317	62724.83	117180	127481.73	355149	404004.3

Table A.172: *nrw1379*: transRR With No Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	383169	399791.23	383169	399791.23	383169	399791.23	537992	595409.8
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	232074	242352.1	232074	242352.1	296553	325450	537992	595409.8
		2op	62317	62317	62317	62317	62317	62317	62317	62317
51	500K	rnd	383828	394482.33	383828	394482.33	383828	394482.33	383828	405158.07
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	230404	240217.2	230404	240217.2	230404	240217.2	357328	399660.33
		2op	62317	62317	62317	62317	62317	62317	62317	62317

Table A.173: *nrw1379*: basicRR+RS With No Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	407879	423791.7	407879	423791.7	408472	429527.67	474231	496587.17
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	386210	402631	320414	358154.2	408472	429423.73	474231	496587.17
		2op	62317	62317	62317	62317	62317	62317	62317	62317
51	500K	rnd	411697	425463.83	411697	425463.83	411697	425463.83	421216	443045.1
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	393039	401853.23	363770	398592.6	398902	411929.63	421216	443045.1
		2op	62317	62317	62317	62317	62317	62317	62317	62317

Table A.174: *nrw1379*: transRR+RS With No Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	529832	543779.8	529832	543779.8	529832	543779.8	595176	643190.23
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	328937	340883.6	328937	340883.6	328937	342133.03	595176	635355.1
		2op	62317	62317	62317	62317	62317	62317	62317	62317
51	500K	rnd	529842	541890.13	529842	541890.13	529842	541890.13	529842	541890.13
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	354426	361736.63	354426	361736.63	354426	361736.63	395078	436244.73
		2op	62317	62317	62317	62317	62317	62317	62317	62317

Table A.175: *nrw1379*: basicRR+IM With No Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	462395	468681.27	462395	468681.27	462395	468681.27	491761	511298.8
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	395092	407056.9	395092	407056.9	410729	423420.67	491761	511298.8
		2op	62317	62317	62317	62317	62317	62317	62317	62317
51	500K	rnd	483437	488680.23	483437	488680.23	483437	488680.23	483437	488680.23
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	406010	413432.2	406010	413432.2	406010	413996.03	454744	488918.53
		2op	62317	62317	62317	62317	62317	62317	62317	62317

Table A.176: *nrw1379*: transRR+IM With No Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
51	500K	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130

Table A.177: *pcb1173*: basicRR With No Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	111333	113700.77	111333	113700.77	111847	166622.07	529081	586899.07
		2op	65130	65130	65130	65130	65130	106088	418036	467476.6
	5M	rnd	108104	110417.43	136795	145163.87	316182	371837.9	559661	650724.9
		2op	65114	65129.47	82062	86980.73	285533	312571.23	450347	528966.07
51	500K	rnd	111142	113632.6	111142	113632.6	111142	113632.6	245098	281410.8
		2op	65130	65130	65130	65130	65130	65130	166313	186759.83
	5M	rnd	108202	110297.4	108533	111601.63	194528	221565.1	433683	503607.83
		2op	65123	65129.7	65128	65702.5	124823	139224.5	385280	419449.37

Table A.178: *pcb1173*: transRR With No Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
51	500K	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130

Table A.179: *pcb1173*: basicRR+RS With No Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	111396	113639.1	111396	113639.1	111992	114327.7	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	108256	110203.67	108600	110700.6	111992	114297.5	123837	123837
		2op	65102	65129.07	65130	65130	65130	65130	65130	65130
51	500K	rnd	112179	113752.5	112179	113752.5	112179	113752.5	114383	116959.9
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	108772	110623	105784	110326.53	109846	111779.93	114383	116959.9
		2op	65130	65130	65130	65130	65130	65130	65130	65130

Table A.180: *pcb1173*: transRR+RS With No Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
51	500K	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130

Table A.181: *pcb1173*: basicRR+IM With No Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	123803	123835.87	123803	123835.87	123803	123835.87	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	108878	111273.7	108878	111273.7	111153	113924.27	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
51	500K	rnd	123837	123837	123837	123837	123837	123837	123837	123837
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	109899	111409.93	109899	111409.93	109899	111409.93	120512	123248.7
		2op	65130	65130	65130	65130	65130	65130	65130	65130

Table A.182: *pcb1173*: transRR+IM With No Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
51	500K	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537

Table A.183: *pr1002*: basicRR With No Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	327690	334608.2	327690	334608.2	331562	550163.07	1986013	2241443.97
		2op	285537	285537	285537	285537	285537	487373.7	1907474	2172300.53
	5M	rnd	321109	327801.63	395165	430234.83	1263163	1374698.33	2191310	2555430.2
		2op	285537	285537	356944	375776.5	1275650	1422920.53	2205464	2476215.9
51	500K	rnd	324365	333325	324365	333325	324365	333325	840477	910713.9
		2op	285537	285537	285537	285537	285537	285537	742008	841117.83
	5M	rnd	319482	326448.87	319482	339039.67	632032	719069.57	1621086	1895667.67
		2op	285412	285532.83	285537	291481.73	560029	621373.63	1778045	1959663

Table A.184: *pr1002*: transRR With No Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
51	500K	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537

Table A.185: *pr1002*: basicRR+RS With No Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	329469	337223.2	329469	337223.2	331896	340102.8	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	322502	329157.33	323280	330896.97	331896	340098.1	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
51	500K	rnd	329835	334323.07	329835	334323.07	329835	334323.07	336792	345193.63
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	323188	326668.97	323188	326534.57	326238	330045.43	336792	345193.63
		2op	285436	285533.63	285436	285533.63	285537	285537	285537	285537

Table A.186: *pr*1002: transRR+RS With No Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
51	500K	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537

Table A.187: *pr*1002: basicRR+IM With No Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	321502	327262.37	321502	327262.37	332074	336959.8	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
51	500K	rnd	349403	349403	349403	349403	349403	349403	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	323359	327754.9	323359	327754.9	323359	327754.9	349403	349403
		2op	285537	285537	285537	285537	285537	285537	285537	285537

Table A.188: *pr*1002: transRR+IM With No Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	2688350	2760100.27	2688350	2760100.27	2688350	2760100.27	3231694	3231694
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	1701731	1760215	1701731	1760215	2153966	2357086.87	3231694	3231694
		2op	287163	287163	287163	287163	287163	287163	287163	287163
51	500K	rnd	2590651	2695793.8	2590651	2695793.8	2590651	2695793.8	2644064	2839534.83
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	1673152	1734794.63	1673152	1734794.63	1687501	1735292.23	2584959	2827187.87
		2op	287163	287163	287163	287163	287163	287163	287163	287163

Table A.189: $r/l1304$: basicRR With No Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	2680765	2749575.93	2680765	2749575.93	2715628	3322183.83	7356105	7646888.13
		2op	287163	287163	287163	287163	287163	476608.27	2812311	3090174.97
	5M	rnd	2637593	2685625.07	3125368	3440703.63	5698963	6050902.67	7536575	7822021.4
		2op	287064	287158.3	360690	398456.67	1850494	2027784.77	3171654	3443041.87
51	500K	rnd	2701233	2767161.23	2701233	2767161.23	2701233	2767161.23	5079977	5658872.23
		2op	287163	287163	287163	287163	287163	287163	852794	1013744.3
	5M	rnd	2624770	2692390.8	2624770	2713990.83	4351907	4654952.57	7050045	7294566.07
		2op	286868	287141.97	286868	289622.6	624175	699332.07	2437972	2810556.5

Table A.190: $r/l1304$: transRR With No Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	2683430	2776478.93	2683430	2776478.93	2683430	2776478.93	3231694	3231694
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	1697494	1757377.9	1697494	1757377.9	2114838	2343272.2	3231694	3231694
		2op	287163	287163	287163	287163	287163	287163	287163	287163
51	500K	rnd	2545119	2682550.17	2545119	2682550.17	2545119	2682550.17	2659192	2863530.83
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	1649870	1728320.83	1649870	1728320.83	1649870	1728381.2	2544722	2848132.97
		2op	287163	287163	287163	287163	287163	287163	287163	287163

Table A.191: $r/l1304$: basicRR+RS With No Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	2678998	2753768.9	2678998	2753768.9	2683164	2761602.17	2932427	3092481.43
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	2615827	2682453.03	2622685	2693430.9	2680107	2755803.63	2932427	3092481.43
		2op	286864	287152.83	287163	287163	287163	287163	287163	287163
51	500K	rnd	2682858	2752107.13	2682858	2752107.13	2682858	2752107.13	2696813	2796179.47
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	2600362	2683456.27	2568058	2675580.37	2657163	2702778.87	2696813	2796179.47
		2op	286544	287132.3	286681	287136.87	287163	287163	287163	287163

Table A.192: $r/l1304$: transRR+RS With No Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	3231694	3231694	3231694	3231694	3231694	3231694	3231694	3231694
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	2268518	2360788.4	2268518	2360788.4	2303950	2407684.57	3231694	3231694
		2op	287163	287163	287163	287163	287163	287163	287163	287163
51	500K	rnd	3231694	3231694	3231694	3231694	3231694	3231694	3231694	3231694
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	2413111	2499918.27	2413111	2499918.27	2413111	2499918.27	2844597	3146104.8
		2op	287163	287163	287163	287163	287163	287163	287163	287163

Table A.193: $r/l1304$: basicRR+IM With No Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	2973047	3028338.13	2973047	3028338.13	2973047	3028338.13	3017559	3164905.57
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	2604671	2684910.17	2604671	2684910.17	2635677	2714650.03	2986328	3163864.53
		2op	287163	287163	287163	287163	287163	287163	287163	287163
51	500K	rnd	3048529	3113967.73	3048529	3113967.73	3048529	3113967.73	3048529	3113967.73
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	2645418	2690722.27	2645418	2690722.27	2645418	2690722.27	2862051	3048877.37
		2op	287163	287163	287163	287163	287163	287163	287163	287163

Table A.194: $r/l1304$: transRR+IM With No Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	2763827	2895121.07	2763827	2895121.07	2791341	2897212.5	3088190	3088190
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	1811023	1885893.37	1811023	1885893.37	2118521	2469266.5	3088190	3088190
		2op	307805	307805	307805	307805	307805	307805	307805	307805
51	500K	rnd	2765001	2836881.07	2765001	2836881.07	2765001	2836881.07	2765001	2965853.93
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	1822244	1871204.1	1822244	1871204.1	1822244	1872696.1	2719600	2950839.2
		2op	307805	307805	307805	307805	307805	307805	307805	307805

Table A.195: $r/l1323$: basicRR With No Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	2718705	2780764.13	2718705	2780764.13	2718705	3483255.07	7851252	8196798.1
		2op	307805	307805	307805	307805	307805	466259.03	2771805	3129412.23
	5M	rnd	2671099	2719616.77	3164692	3437781.17	6349937	6546691.37	7938093	8292566.4
		2op	307805	307805	399804	428559.57	1844088	2056127.27	3217645	3455603.43
51	500K	rnd	2733898	2774791.13	2733898	2774791.13	2733898	2774791.13	5179131	6186929.5
		2op	307805	307805	307805	307805	307805	307805	926676	1058449.83
	5M	rnd	2664070	2711421.57	2664070	2731223.97	4626208	4907533.03	7437593	7804381.07
		2op	307631	307797.63	307805	312013.1	661650	738995.73	2619567	2884334.17

Table A.196: $r/l1323$: transRR With No Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	2808090	2914967.57	2808090	2914967.57	2808090	2914967.57	3088190	3088190
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	1834233	1891323.13	1834233	1891323.13	2249696	2434605.3	3088190	3088190
		2op	307805	307805	307805	307805	307805	307805	307805	307805
51	500K	rnd	2785969	2846584.2	2785969	2846584.2	2785969	2846584.2	2785969	2960461.47
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	1794132	1867594.93	1794132	1867594.93	1794132	1867594.93	2742115	2946580.03
		2op	307805	307805	307805	307805	307805	307805	307805	307805

Table A.197: $r/l1323$: basicRR+RS With No Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	2703590	2776430.53	2703590	2776430.53	2719379	2784904.53	2997782	3073833.4
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	2650168	2712644.67	2667749	2724944	2714216	2780856.4	2997782	3073833.4
		2op	307707	307801.73	307805	307805	307805	307805	307805	307805
51	500K	rnd	2729497	2783842.77	2729497	2783842.77	2729497	2783842.77	2755562	2821024.27
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	2643192	2714379.8	2599702	2707618.77	2668290	2737006.53	2755562	2821024.27
		2op	307805	307805	307805	307805	307805	307805	307805	307805

Table A.198: $r/l1323$: transRR+RS With No Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	3088190	3088190	3088190	3088190	3088190	3088190	3088190	3088190
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	2459686	2505639.37	2459686	2505639.37	2460045	2545135.83	3088190	3088190
		2op	307805	307805	307805	307805	307805	307805	307805	307805
51	500K	rnd	3088190	3088190	3088190	3088190	3088190	3088190	3088190	3088190
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	2579598	2647333.6	2579598	2647333.6	2579598	2647333.6	2938140	3081847.63
		2op	307805	307805	307805	307805	307805	307805	307805	307805

Table A.199: $r/l1323$: basicRR+IM With No Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	3012518	3071469.5	3012518	3071469.5	3012518	3071469.5	3069218	3086551.93
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	2674518	2727623.07	2674518	2727623.07	2705986	2759434.4	3062975	3086312.3
		2op	307805	307805	307805	307805	307805	307805	307805	307805
51	500K	rnd	3088190	3088190	3088190	3088190	3088190	3088190	3088190	3088190
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	2681944	2723862	2681944	2723862	2681944	2723862	2856360	3038887
		2op	307805	307805	307805	307805	307805	307805	307805	307805

Table A.200: $r/l1323$: transRR+IM With No Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	4710935	4851555.07	4710935	4851555.07	4710935	4851555.07	6231431	6578445.9
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	2958463	3072377.23	2958463	3072377.23	3414403	3781458.27	6231431	6578445.9
		2op	368831	368831	368831	368831	368831	368831	368831	368831
51	500K	rnd	4707797	4813981.63	4707797	4813981.63	4707797	4813981.63	4707797	4837199.87
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	2826526	3059448.63	2826526	3059448.63	2826526	3059448.63	4206971	4620366.4
		2op	368831	368831	368831	368831	368831	368831	368831	368831

Table A.201: $r/l1889$: basicRR With No Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	5223939	5333717.9	5223939	5333717.9	5223939	5558878.67	12148426	12393225.53
		2op	368831	368831	368831	368831	368831	381704.73	3666503	4094549.67
	5M	rnd	4984673	5127234.43	5076119	6224667.6	9434549	10109877	12185704	12606246.97
		2op	368831	368831	474922	505198.33	2519535	2834968.47	4227780	4540186.17
51	500K	rnd	5218731	5331665.3	5218731	5331665.3	5218731	5331665.3	5257397	9077683.5
		2op	368831	368831	368831	368831	368831	368831	686197	1160473.97
	5M	rnd	5010281	5115268.67	5010281	5115268.67	7449598	8069872.33	11539776	11869404.23
		2op	368698	368826.57	368698	368826.57	761358	855049.23	3637753	3899588.23

Table A.202: $r/l1889$: transRR With No Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	4786943	4895281.33	4786943	4895281.33	4786943	4895281.33	6438202	6589149.63
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	2967192	3086205.5	2967192	3086205.5	3468374	3818608.3	6438202	6589149.63
		2op	368831	368831	368831	368831	368831	368831	368831	368831
51	500K	rnd	4658169	4806602	4658169	4806602	4658169	4806602	4658169	4852429.27
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	2953265	3048170.97	2953265	3048170.97	2953265	3048170.97	4192294	4634581.4
		2op	368831	368831	368831	368831	368831	368831	368831	368831

Table A.203: $r/l1889$: basicRR+RS With No Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	5200112	5326916.63	5200112	5326916.63	5221008	5328972.93	5745371	5993039.57
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	4994641	5125073.83	5001842	5133413.53	5187316	5273682.07	5745371	5993039.57
		2op	368460	368809.4	368831	368831	368831	368831	368831	368831
51	500K	rnd	5216539	5334591.87	5216539	5334591.87	5216539	5334591.87	5216539	5360955.87
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	5028413	5123618	5028413	5123618	5068380	5158264.87	5214137	5353378.93
		2op	368706	368826.83	368706	368826.83	368831	368831	368831	368831

Table A.204: $r/l1889$: transRR+RS With No Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	6601280	6601280	6601280	6601280	6601280	6601280	6601280	6601280
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	4184227	4315614	4184227	4315614	4184227	4315614	6601280	6601280
		2op	368831	368831	368831	368831	368831	368831	368831	368831
51	500K	rnd	6601280	6601280	6601280	6601280	6601280	6601280	6601280	6601280
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	4406336	4530703.07	4406336	4530703.07	4406336	4530703.07	4729587	5790207.4
		2op	368831	368831	368831	368831	368831	368831	368831	368831

Table A.205: $r/l1889$: basicRR+IM With No Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	5836493	5986159.77	5836493	5986159.77	5836493	5986159.77	5894232	6083419.8
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	5093064	5191771.53	5093064	5191771.53	5131798	5222593.87	5861899	6085765.17
		2op	368831	368831	368831	368831	368831	368831	368831	368831
51	500K	rnd	6124751	6212022.77	6124751	6212022.77	6124751	6212022.77	6124751	6212022.77
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	5140353	5220256.5	5140353	5220256.5	5140353	5220256.5	5596542	6091162.03
		2op	368831	368831	368831	368831	368831	368831	368831	368831

Table A.206: $r/l1889$: transRR+IM With No Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
51	500K	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394

Table A.207: $u1060$: basicRR With No Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	258426	260085.07	258426	260085.07	260174	416277.7	1824828	1971984.53
		2op	248394	248394	248394	248394	248394	403851.7	1713850	2014824.07
	5M	rnd	254956	256437.03	309193	330037.4	1151654	1253208.67	1895310	2248907
		2op	248394	248394	298649	319293.5	1102347	1227468.47	2046145	2247322.33
51	500K	rnd	258607	260009.37	258607	260009.37	258607	260009.37	616773	682255.37
		2op	248394	248394	248394	248394	248394	248394	595665	685737.03
	5M	rnd	254180	255798.27	254307	260614.53	495533	552436.2	1560734	1769262.97
		2op	248394	248394	248394	251729.8	453907	512451.23	1560500	1743017.8

Table A.208: $u1060$: transRR With No Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
51	500K	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394

Table A.209: $u1060$: basicRR+RS With No Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	258568	260047.43	258568	260047.43	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	253944	256094.17	255182	257110.13	260174	260174	260174	260174
		2op	248357	248392.77	248394	248394	248394	248394	248394	248394
51	500K	rnd	258762	260003.2	258762	260003.2	258762	260003.2	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	254633	256036.5	254633	256105.87	255521	257778.7	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394

Table A.210: $u1060$: transRR+RS With No Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
51	500K	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394

Table A.211: $u1060$: basicRR+IM With No Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	256324	257936.7	256324	257936.7	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
51	500K	rnd	260174	260174	260174	260174	260174	260174	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	257275	258492.3	257275	258492.3	257275	258492.3	260174	260174
		2op	248394	248394	248394	248394	248394	248394	248394	248394

Table A.212: $u1060$: transRR+IM With No Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
51	500K	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059

Table A.213: $u1432$: basicRR With No Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	181402	182674.6	181402	182674.6	182180	270961.17	1036634	1151218.23
		2op	170059	170059	170059	170059	170059	257677.37	1078264	1156554.27
	5M	rnd	175645	176627.07	214407	229590.77	695685	802459.93	1127576	1263483.87
		2op	169997	170056.93	213027	221456.27	750610	796978.77	1151987	1248701.1
51	500K	rnd	180459	182284.37	180459	182284.37	180459	182284.37	408115	444616.73
		2op	170059	170059	170059	170059	170059	170059	389038	439047.93
	5M	rnd	175155	176389.63	176154	182518.83	308773	339101.5	938263	1070879.53
		2op	169847	170048.27	170059	175614.8	286987	325245.8	974100	1076653.83

Table A.214: $u1432$: transRR With No Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
51	500K	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059

Table A.215: $u1432$: basicRR+RS With No Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	180683	182527.23	180683	182527.23	181652	182949.27	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	175028	176623.73	175848	177673.77	181652	182884.33	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
51	500K	rnd	180571	182478.4	180571	182478.4	180571	182478.4	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	175177	176542.03	175718	176679.03	177047	178616.57	183070	183070
		2op	169750	170048.7	169750	170048.7	170059	170059	170059	170059

Table A.216: $u1432$: transRR+RS With No Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
51	500K	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059

Table A.217: $u1432$: basicRR+IM With No Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	177921	179822.67	177921	179822.67	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
51	500K	rnd	183070	183070	183070	183070	183070	183070	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	179445	180475.03	179445	180475.03	179445	180475.03	183070	183070
		2op	170059	170059	170059	170059	170059	170059	170059	170059

Table A.218: $u1432$: transRR+IM With No Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
51	500K	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378

Table A.219: $u1817$: basicRR With No Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	71460	71460	71460	71460	71460	92184.43	546802	617224.9
		2op	65378	65378	65378	65378	65378	78370.47	534725	596299.1
	5M	rnd	70053	70595.37	87932	96806.2	356851	406349.27	604306	690261.9
		2op	65378	65378	83605	90322.2	367212	403881.6	637067	683648.33
51	500K	rnd	71460	71460	71460	71460	71460	71460	132506	183693.23
		2op	65378	65378	65378	65378	65378	65378	158667	186659.53
	5M	rnd	69801	70457.83	69801	70627.53	134629	143454.23	498852	576399.03
		2op	65364	65377.53	65364	65751.1	128339	139815.93	532479	573202.63

Table A.220: $u1817$: transRR With No Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
51	500K	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378

Table A.221: $u1817$: basicRR+RS With No Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	69997	70568.4	70261	70915.8	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
51	500K	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	70106	70414.7	70106	70415.73	70548	71166.7	71460	71460
		2op	65331	65375	65335	65375.5	65378	65378	65378	65378

Table A.222: *u1817*: transRR+RS With No Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
51	500K	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378

Table A.223: *u1817*: basicRR+IM With No Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
51	500K	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	71460	71460	71460	71460	71460	71460	71460	71460
		2op	65378	65378	65378	65378	65378	65378	65378	65378

Table A.224: *u1817*: transRR+IM With No Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	2576299	2688877.8	2576299	2688877.8	2576299	2688877.8	3726991	4172049.07
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	1614933	1684621.6	1614933	1684621.6	1940653	2143519.5	3726991	4172049.07
		2op	273289	273289	273289	273289	273289	273289	273289	273289
51	500K	rnd	2614423	2704846.17	2614423	2704846.17	2614423	2704846.17	2614423	2730624.53
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	1630773	1700391.83	1630773	1700391.83	1630773	1701673.03	2384964	2634804.4
		2op	273289	273289	273289	273289	273289	273289	273289	273289

Table A.225: *vm1084*: basicRR With No Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	3529237	3664031.17	3529237	3664031.17	3617400	4853734.5	6936979	7175648.07
		2op	273289	273289	273289	273289	273289	478729.1	2393641	2674283.2
	5M	rnd	3424320	3533142.63	3777863	4336059.63	5405434	5719645.3	7104698	7298327.17
		2op	273211	273286.4	339071	362849.27	1503242	1650139.53	2705243	3046909.47
51	500K	rnd	3557297	3677767.33	3557297	3677767.33	3557297	3677767.33	6057998	6433366.53
		2op	273289	273289	273289	273289	273289	273289	760022	846892.53
	5M	rnd	3442311	3541276.03	3426965	3535905.17	4147049	4903440.27	6435755	6773555.87
		2op	272868	273255.97	272991	277514.43	531465	625266.67	1944117	2344300.77

Table A.226: *vm1084*: transRR With No Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	2622652	2706018	2622652	2706018	2622652	2706018	3715470	4051572.2
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	1618446	1688977.1	1618446	1688977.1	1996151	2177190	3715470	4051572.2
		2op	273289	273289	273289	273289	273289	273289	273289	273289
51	500K	rnd	2580469	2728596.23	2580469	2728596.23	2580469	2728596.23	2580469	2813666.1
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	1639452	1715685.8	1639452	1715685.8	1645840	1715898.73	2487808	2737453.03
		2op	273289	273289	273289	273289	273289	273289	273289	273289

Table A.227: *vm1084*: basicRR+RS With No Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	3619334	3688359.8	3619334	3688359.8	3629712	3719217.63	3979212	4214755.2
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	3465514	3549019.87	3132687	3358927.47	3598945	3717497.93	3979212	4214755.2
		2op	273212	273286.43	273289	273289	273289	273289	273289	273289
51	500K	rnd	3532632	3672408.73	3532632	3672408.73	3532632	3672408.73	3689565	3786578.87
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	3397452	3535550.6	3323233	3522823.37	3425047	3581577.9	3689565	3786578.87
		2op	273184	273285.5	273268	273288.3	273289	273289	273289	273289

Table A.228: *vm1084*: transRR+RS With No Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	3863849	4011093.8	3863849	4011093.8	3863849	4011093.8	4068155	4488999.93
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	2240484	2376534.43	2240484	2376534.43	2240484	2377014.17	4068155	4488999.93
		2op	273289	273289	273289	273289	273289	273289	273289	273289
51	500K	rnd	4046529	4108107.6	4046529	4108107.6	4046529	4108107.6	4046529	4108107.6
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	2495445	2555904.57	2495445	2555904.57	2495445	2555904.57	2932588	3618431.47
		2op	273289	273289	273289	273289	273289	273289	273289	273289

Table A.229: *vm1084*: basicRR+IM With No Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	3897013	4009408.73	3897013	4009408.73	3897013	4009408.73	4105462	4347082.53
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	3509759	3562026.53	3509759	3562026.53	3560670	3644972.9	4105462	4347082.53
		2op	273289	273289	273289	273289	273289	273289	273289	273289
51	500K	rnd	4019190	4121050.43	4019190	4121050.43	4019190	4121050.43	4019190	4121050.43
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	3507524	3560203.37	3507524	3560203.37	3507524	3560203.37	3863725	4110399
		2op	273289	273289	273289	273289	273289	273289	273289	273289

Table A.230: *vm1084*: transRR+IM With No Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	5203606	5366689.73	5203606	5366689.73	5203606	5366689.73	6657925	7354246.7
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	3129592	3278712.2	3129592	3278712.2	3644244	3953686.47	6657925	7354246.7
		2op	379201	379201	379201	379201	379201	379201	379201	379201
51	500K	rnd	5297569	5435401.83	5297569	5435401.83	5297569	5435401.83	5297569	5436802.67
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	3167943	3282787.4	3167943	3282787.4	3167943	3282787.4	4467900	4959709.9
		2op	379201	379201	379201	379201	379201	379201	379201	379201

Table A.231: *vm1748*: basicRR With No Post Optimization – Suspected Optimal Score is 336556

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	7029120	7175121.6	7029120	7175121.6	7029120	7792385.67	12367557	12779340.57
		2op	379201	379201	379201	379201	379201	462382.07	3065297	3822010.67
	5M	rnd	6647551	6830365.2	6655345	7756302.13	9355664	9842987.73	12373036	12914679
		2op	379201	379201	465176	505383.03	2265813	2427219.87	4017275	4396282.7
51	500K	rnd	7016631	7226444.97	7016631	7226444.97	7016631	7226444.97	7257344	11082698.57
		2op	379201	379201	379201	379201	379201	379201	917985	1096362
	5M	rnd	6622951	6861768.53	6622951	6861768.53	8377753	9200532.4	11638119	12143791.77
		2op	379023	379195.07	379023	380180.17	692954	800180.9	3130859	3511631.7

Table A.232: *vm1748*: transRR With No Post Optimization – Suspected Optimal Score is 336556

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	5272414	5383496.3	5272414	5383496.3	5272414	5383496.3	7009341	7544169.03
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	3085392	3251363.23	3085392	3251363.23	3497057	3911086.53	7009341	7544169.03
		2op	379201	379201	379201	379201	379201	379201	379201	379201
51	500K	rnd	5282131	5413569.4	5282131	5413569.4	5282131	5413569.4	5282131	5423175.2
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	3176484	3280948.97	3176484	3280948.97	3176484	3280948.97	4247617	4870027.57
		2op	379201	379201	379201	379201	379201	379201	379201	379201

Table A.233: *vm1748*: basicRR+RS With No Post Optimization – Suspected Optimal Score is 336556

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	7043536	7206889.33	7043536	7206889.33	7043536	7210001.7	7905411	8201265.27
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	6681524	6847327.03	6716108	6859654.13	6965233	7149243.33	7905411	8201265.27
		2op	379201	379201	379201	379201	379201	379201	379201	379201
51	500K	rnd	7071875	7213619.07	7071875	7213619.07	7071875	7213619.07	7086619	7312196.17
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	6689009	6845624.27	6689009	6845624.27	6729949	6913516.9	7086619	7312196.17
		2op	379201	379201	379201	379201	379201	379201	379201	379201

Table A.234: *vm1748*: transRR+RS With No Post Optimization – Suspected Optimal Score is 336556

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	7812966	7896286.27	7812966	7896286.27	7812966	7896286.27	7812966	8095737.37
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	4637086	4783951.23	4637086	4783951.23	4637086	4783951.23	7514831	8053903.87
		2op	379201	379201	379201	379201	379201	379201	379201	379201
51	500K	rnd	7965607	8161486.53	7965607	8161486.53	7965607	8161486.53	7965607	8161486.53
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	5016549	5151667.83	5016549	5151667.83	5016549	5151667.83	5367987	7030849.67
		2op	379201	379201	379201	379201	379201	379201	379201	379201

Table A.235: *vm1748*: basicRR+IM With No Post Optimization – Suspected Optimal Score is 336556

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	7954630	8038231.27	7954630	8038231.27	7954630	8038231.27	8163525	8359114.37
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	6884470	6995804.7	6884470	6995804.7	6924530	7074773	8163525	8359114.37
		2op	379201	379201	379201	379201	379201	379201	379201	379201
51	500K	rnd	8200506	8309501.27	8200506	8309501.27	8200506	8309501.27	8200506	8309501.27
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	6947179	7046149.37	6947179	7046149.37	6947179	7046149.37	7633270	8236928.23
		2op	379201	379201	379201	379201	379201	379201	379201	379201

Table A.236: *vm1748*: transRR+IM With No Post Optimization – Suspected Optimal Score is 336556

A.4.2 Results With Post Optimization

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
	5M	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
51	500K	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
	5M	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709

Table A.237: $d1291$: basicRR With Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	55691	58643.83	55691	58643.83	55005	57267.17	55970	58575.37
		2op	57709	57709	57709	57709	56227	57327.43	56145	59278.7
	5M	rnd	55942	57594.03	56218	57273.67	55459	58208.07	57330	58938.6
		2op	57709	57709	56310	57020.2	56182	59504.93	56251	59254.13
51	500K	rnd	55895	58432	55895	58432	55895	58432	56538	58260
		2op	57709	57709	57709	57709	57709	57709	56376	58103.13
	5M	rnd	55731	57490	56063	57798.4	55711	58590.47	56668	58318.07
		2op	57709	57709	56638	57480.93	56746	57931.43	56618	59172.2

Table A.238: $d1291$: transRR With Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
	5M	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
51	500K	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
	5M	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709

Table A.239: $d1291$: basicRR+RS With Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	56181	58841.57	56181	58841.57	56181	59004.27	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
	5M	rnd	55707	57432.77	55163	57226.17	56907	59035.27	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
51	500K	rnd	56251	58494.33	56251	58494.33	56251	58494.33	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
	5M	rnd	55944	57644.87	55559	57574.57	56106	57355.07	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709

Table A.240: d_{1291} : transRR+RS With Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
	5M	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
51	500K	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
	5M	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709

Table A.241: d_{1291} : basicRR+IM With Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
	5M	rnd	55683	57164.03	55683	57164.03	56212	59057.6	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
51	500K	rnd	59180	59180	59180	59180	59180	59180	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709
	5M	rnd	55812	57275.27	55812	57275.27	55812	57275.27	59180	59180
		2op	57709	57709	57709	57709	57709	57709	57709	57709

Table A.242: d_{1291} : transRR+IM With Post Optimization – Suspected Optimal Score is 50801

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
51	500K	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	69235	71084.77	69235	71084.77	69235	71099.17	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594

Table A.243: *d1655*: basicRR With Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	69425	70555.53	69425	70555.53	69425	70592.2	70374	71294.7
		2op	70594	70594	70594	70594	69179	70329.2	69747	71486.43
	5M	rnd	69516	70731.47	68879	70320.83	69293	71019.13	69254	71066.47
		2op	70594	70594	68522	69464.83	70325	71553.13	69937	71450.4
51	500K	rnd	69824	70579.27	69824	70579.27	69824	70579.27	69339	70776.13
		2op	70594	70594	70594	70594	70594	70594	69318	70765.27
	5M	rnd	69734	70824.67	69734	70920.1	69569	70774.33	70280	71404.1
		2op	70594	70594	69485	70494.03	69170	70372.43	69604	71814.63

Table A.244: *d1655*: transRR With Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
51	500K	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	69559	71130.67	69559	71130.67	69559	71083.77	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594

Table A.245: *d1655*: basicRR+RS With Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	69261	70635.2	69261	70635.2	69546	70763.47	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	69278	70678.77	69653	70655.27	69066	70719.37	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
51	500K	rnd	69102	70714.3	69102	70714.3	69102	70714.3	68938	70481.8
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	68949	70671.83	68949	70599.33	69351	70720.97	68938	70481.8
		2op	70594	70594	70594	70594	70594	70594	70594	70594

Table A.246: *d1655*: transRR+RS With Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
51	500K	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594

Table A.247: *d1655*: basicRR+IM With Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	69182	70500.5	69182	70500.5	69208	70493.9	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
51	500K	rnd	71233	71233	71233	71233	71233	71233	71233	71233
		2op	70594	70594	70594	70594	70594	70594	70594	70594
	5M	rnd	69068	70390.93	69068	70390.93	69068	70390.93	70675	71214.4
		2op	70594	70594	70594	70594	70594	70594	70594	70594

Table A.248: *d1655*: transRR+IM With Post Optimization – Suspected Optimal Score is 62128

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	20505586	20883123.17	20505586	20883123.17	20505586	20883123.17	20580495	20947715.63
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	20644388	20931393.9	20644388	20931393.9	20384354	20986603.33	20580495	20947715.63
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
51	500K	rnd	20510571	20979485.57	20510571	20979485.57	20510571	20979485.57	20569968	21016686.17
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	20601043	20972034.03	20601043	20972034.03	20601043	20972034.03	20499959	20943537.47
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134

Table A.249: *dsj1000*: basicRR With Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	20646883	20966327.03	20646883	20966327.03	20641581	20988269.93	20547638	21004791.8
		2op	20949134	20949134	20949134	20949134	20322445	20614535.43	20560094	20923757.53
	5M	rnd	20270323	20846502.67	20298920	20930207.9	20445747	20891050.6	20573106	20922100.97
		2op	20913324	20947940.33	20292743	20575104.77	20486235	20841076.27	20612658	20943834.4
51	500K	rnd	20540412	20948362.17	20540412	20948362.17	20540412	20948362.17	20500433	20875965.77
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20271195	20689313.03
	5M	rnd	20430684	20916720.9	20430684	20898247.33	20578711	20929497.23	20557218	21003209.77
		2op	20803079	20944265.5	20658408	20862454.63	20347128	20668351.87	20438806	20841823.13

Table A.250: *dsj1000*: transRR With Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	20533433	20894036.1	20533433	20894036.1	20533433	20894036.1	20335251	20917598.8
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	20513216	20890961.83	20513216	20890961.83	20535948	21005982.6	20335251	20917598.8
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
51	500K	rnd	20680219	20937189.77	20680219	20937189.77	20680219	20937189.77	20636451	20935205.27
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	20561034	20952139.43	20561034	20952139.43	20561034	20952139.43	20636451	20950885.2
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134

Table A.251: *dsj1000*: basicRR+RS With Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	20609871	21008117.4	20609871	21008117.4	20501918	20970102.73	20458554	20868276.77
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	20511952	20878325.33	20592782	20997930.6	20501918	20970102.73	20458554	20868276.77
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
51	500K	rnd	20430149	20958788.83	20430149	20958788.83	20430149	20958788.83	20466408	20906416.63
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	20464741	20937846.8	20464741	20935345.87	20366489	21002202.37	20466408	20906416.63
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134

Table A.252: *dsj1000*: transRR+RS With Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	20445459	20947955.5	20445459	20947955.5	20445459	20947955.5	20434302	20917515.5
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	20309097	20866084.43	20309097	20866084.43	20309097	20866084.43	20434302	20906277.17
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
51	500K	rnd	20428405	20897644.57	20428405	20897644.57	20428405	20897644.57	20428405	20897644.57
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	20592233	20976507.93	20592233	20976507.93	20592233	20976507.93	20509312	20932026.3
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134

Table A.253: *dsj1000*: basicRR+IM With Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	20390987	20912061.77	20390987	20912061.77	20390987	20912061.77	20413965	20895651.03
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	20434942	20966152.8	20434942	20966152.8	20529766	20934117.3	20413965	20895651.03
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
51	500K	rnd	20428543	20875670.5	20428543	20875670.5	20428543	20875670.5	20428543	20875670.5
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134
	5M	rnd	20468778	21018643.67	20468778	21018643.67	20468778	21018643.67	20595237	20856183.57
		2op	20949134	20949134	20949134	20949134	20949134	20949134	20949134	20949134

Table A.254: *dsj1000*: transRR+IM With Post Optimization – Suspected Optimal Score is 18659688

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	21275	21860.4	21275	21860.4	21275	21853.43	21726	21726
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	21154	21954.73	21154	21954.73	21064	21912.27	21726	21726
		2op	21672	21672	21672	21672	21672	21672	21672	21672
51	500K	rnd	20939	21852.7	20939	21852.7	20939	21852.7	21125	21829.7
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	21054	21826.73	21054	21826.73	21054	21826.87	21125	21833.33
		2op	21672	21672	21672	21672	21672	21672	21672	21672

Table A.255: $fl1400$: basicRR With Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	20864	21994.5	20864	21994.5	21076	21919.5	20962	21722.9
		2op	21672	21672	21672	21672	21210	21524.7	21060	21867.77
	5M	rnd	21166	21848.13	20888	21845.83	21135	21832.47	21144	21810.67
		2op	21672	21672	21268	21577.43	20979	21711.97	21015	21767.3
51	500K	rnd	21105	21958	21105	21958	21105	21958	21027	21712.9
		2op	21672	21672	21672	21672	21672	21672	21118	21631.37
	5M	rnd	21152	21986.53	21115	21825.3	21220	21808.53	21075	21844.83
		2op	21672	21672	21458	21615.33	21169	21585.23	20935	21736.57

Table A.256: $fl1400$: transRR With Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	21046	21830.77	21046	21830.77	21046	21830.77	21726	21726
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	21173	21715.27	21173	21715.27	21129	21841.4	21726	21726
		2op	21672	21672	21672	21672	21672	21672	21672	21672
51	500K	rnd	21287	21856.37	21287	21856.37	21287	21856.37	21173	21751.67
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	21044	21844.1	21044	21844.1	21044	21868.73	21173	21806.93
		2op	21672	21672	21672	21672	21672	21672	21672	21672

Table A.257: $fl1400$: basicRR+RS With Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	20934	21845.4	20934	21845.4	20885	21678.7	21277	21866.37
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	21100	21836.33	20980	21753.1	20885	21678.7	21277	21866.37
		2op	21467	21665.17	21672	21672	21672	21672	21672	21672
51	500K	rnd	20981	21750.63	20981	21750.63	20981	21750.63	20908	21743.4
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	21038	21795.17	21313	21940.63	21236	21877.1	20908	21743.4
		2op	21672	21672	21672	21672	21672	21672	21672	21672

Table A.258: *fl1400*: transRR+RS With Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	21726	21726	21726	21726	21726	21726	21726	21726
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	20915	22012.53	20915	22012.53	20850	21910.27	21726	21726
		2op	21672	21672	21672	21672	21672	21672	21672	21672
51	500K	rnd	21144	21706.6	21144	21706.6	21144	21706.6	21144	21706.6
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	21072	21805.63	21072	21805.63	21072	21805.63	20997	21779.63
		2op	21672	21672	21672	21672	21672	21672	21672	21672

Table A.259: *fl1400*: basicRR+IM With Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	21231	21955.37	21231	21955.37	21231	21955.37	21213	21770.07
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	21020	21943.17	21020	21943.17	21139	21830.53	21213	21770.07
		2op	21672	21672	21672	21672	21672	21672	21672	21672
51	500K	rnd	21227	21931.97	21227	21931.97	21227	21931.97	21227	21931.97
		2op	21672	21672	21672	21672	21672	21672	21672	21672
	5M	rnd	21288	21980.03	21288	21980.03	21288	21980.03	20831	21759.7
		2op	21672	21672	21672	21672	21672	21672	21672	21672

Table A.260: *fl1400*: transRR+IM With Post Optimization – Suspected Optimal Score is 20127

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
	5M	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
51	500K	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
	5M	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964

Table A.261: $fl1577$: basicRR With Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	25142	25142	25142	25142	23880	24965.1	24178	25123.73
		2op	23964	23964	23964	23964	23254	23594.33	24188	25160.37
	5M	rnd	25142	25142	23983	24897.37	23870	25372.23	24096	25230.2
		2op	23815	23948.23	23349	23568.17	23795	24764.73	23992	25060.5
51	500K	rnd	25142	25142	25142	25142	25142	25142	24399	25386.57
		2op	23964	23964	23964	23964	23964	23964	23408	23742.07
	5M	rnd	25142	25142	23689	24995.97	24145	25057.97	23982	25199.9
		2op	23825	23950.97	23695	23838.33	23318	23590.23	24131	24937.97

Table A.262: $fl1577$: transRR With Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
	5M	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
51	500K	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
	5M	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964

Table A.263: $fl1577$: basicRR+RS With Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
	5M	rnd	23833	25098.37	25142	25150.97	25142	25142	25142	25142
		2op	23753	23940.8	23964	23964	23964	23964	23964	23964
51	500K	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
	5M	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23894	23961.67	23894	23961.67	23964	23964	23964	23964

Table A.264: *fl1577*: transRR+RS With Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
	5M	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
51	500K	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
	5M	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964

Table A.265: *fl1577*: basicRR+IM With Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
	5M	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
51	500K	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964
	5M	rnd	25142	25142	25142	25142	25142	25142	25142	25142
		2op	23964	23964	23964	23964	23964	23964	23964	23964

Table A.266: *fl1577*: transRR+IM With Post Optimization – Suspected Optimal Score is 22249

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	63098	63737.7	63098	63737.7	63098	63737.7	62228	63511.77
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	62841	63535.7	62841	63535.7	62572	63656.8	62228	63511.77
		2op	62317	62317	62317	62317	62317	62317	62317	62317
51	500K	rnd	62570	63701.7	62570	63701.7	62570	63701.7	62593	63716.77
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	62707	63596.93	62707	63596.93	62707	63583.2	62593	63698.9
		2op	62317	62317	62317	62317	62317	62317	62317	62317

Table A.267: *nrw1379*: basicRR With Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	62441	63156.97	62441	63156.97	62383	63199.6	62159	63165.83
		2op	62317	62317	62317	62317	61733	62447.27	62375	63650.5
	5M	rnd	62546	63277.47	62188	63111.73	62238	63223.53	62568	63214.27
		2op	62317	62317	61587	62155.6	62486	63598.63	62245	63523.37
51	500K	rnd	62408	63147.73	62408	63147.73	62408	63147.73	62254	63252.67
		2op	62317	62317	62317	62317	62317	62317	62595	63258.53
	5M	rnd	62538	63240.23	62609	63254.53	62588	63215.07	62280	63192.57
		2op	62317	62317	62142	62305.73	62286	63003.57	62639	63659.8

Table A.268: *nrw1379*: transRR With Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	62510	63546.87	62510	63546.87	62510	63546.87	62170	63527.17
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	62655	63748.3	62655	63748.3	62760	63600.7	62170	63527.17
		2op	62317	62317	62317	62317	62317	62317	62317	62317
51	500K	rnd	62696	63592.1	62696	63592.1	62696	63592.1	62696	63598.1
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	62774	63773.57	62774	63773.57	62774	63773.57	62821	63698.77
		2op	62317	62317	62317	62317	62317	62317	62317	62317

Table A.269: *nrw1379*: basicRR+RS With Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	62011	63013.53	62011	63013.53	62204	63186.8	62219	63077.53
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	62022	63029.53	62477	63139.37	62204	63188.73	62219	63077.53
		2op	62317	62317	62317	62317	62317	62317	62317	62317
51	500K	rnd	62290	63144.57	62290	63144.57	62290	63144.57	62512	63208.83
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	62295	63089.27	62365	63139.4	62346	63194.7	62512	63208.83
		2op	62317	62317	62317	62317	62317	62317	62317	62317

Table A.270: *nrw1379*: transRR+RS With Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	62822	63621.8	62822	63621.8	62822	63621.8	62873	63382.03
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	62630	63627.4	62630	63627.4	62630	63604.67	62083	63307.77
		2op	62317	62317	62317	62317	62317	62317	62317	62317
51	500K	rnd	62529	63558.73	62529	63558.73	62529	63558.73	62529	63558.73
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	62895	63684.2	62895	63684.2	62895	63684.2	62641	63531.43
		2op	62317	62317	62317	62317	62317	62317	62317	62317

Table A.271: *nrw1379*: basicRR+IM With Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	61939	63173.07	61939	63173.07	61939	63173.07	61905	63150.63
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	62559	63145.67	62559	63145.67	62244	63258.13	61905	63150.63
		2op	62317	62317	62317	62317	62317	62317	62317	62317
51	500K	rnd	61995	63050.87	61995	63050.87	61995	63050.87	61995	63050.87
		2op	62317	62317	62317	62317	62317	62317	62317	62317
	5M	rnd	62670	63396.03	62670	63396.03	62670	63387.57	62076	63109.43
		2op	62317	62317	62317	62317	62317	62317	62317	62317

Table A.272: *nrw1379*: transRR+IM With Post Optimization – Suspected Optimal Score is 56638

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
51	500K	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130

Table A.273: *pcb1173*: basicRR With Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	62264	63694.23	62264	63694.23	62854	64415.57	63629	65145.87
		2op	65130	65130	65130	65130	62714	63977	63914	65115.33
	5M	rnd	62479	63631.43	62775	64397.97	63704	65157.57	64132	65299.07
		2op	64704	65115.8	62839	63654.4	64039	65337.37	64165	65345.4
51	500K	rnd	62686	63642.1	62686	63642.1	62686	63642.1	63928	65320.27
		2op	65130	65130	65130	65130	65130	65130	63670	64788.07
	5M	rnd	62815	63786.37	62815	63760.7	63908	64802.33	63458	65061.7
		2op	64469	65088.47	62749	64779.6	63165	64491.33	63799	65097.8

Table A.274: *pcb1173*: transRR With Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
51	500K	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130

Table A.275: *pcb1173*: basicRR+RS With Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	62738	63648.53	62738	63648.53	62690	63646.27	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	62475	63583.37	62719	63657.2	62690	63727.33	64116	64116
		2op	64795	65118.83	65130	65130	65130	65130	65130	65130
51	500K	rnd	62524	63681.27	62524	63681.27	62524	63681.27	62898	63845.87
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	62837	63640.5	62789	63603.07	62428	63607.27	62898	63845.87
		2op	65130	65130	65130	65130	65130	65130	65130	65130

Table A.276: *pcb1173*: transRR+RS With Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
51	500K	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130

Table A.277: *pcb1173*: basicRR+IM With Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	63636	64100	63636	64100	63636	64100	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	62572	63788.17	62572	63788.17	62350	63701.27	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
51	500K	rnd	64116	64116	64116	64116	64116	64116	64116	64116
		2op	65130	65130	65130	65130	65130	65130	65130	65130
	5M	rnd	62096	63496.83	62096	63496.83	62096	63496.83	62739	63998.6
		2op	65130	65130	65130	65130	65130	65130	65130	65130

Table A.278: *pcb1173*: transRR+IM With Post Optimization – Suspected Optimal Score is 56892

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
51	500K	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537

Table A.279: *pr1002*: basicRR With Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	281680	286236.6	281680	286236.6	281288	287169.2	287256	292763.5
		2op	285537	285537	285537	285537	281342	285443.4	285060	291718.6
	5M	rnd	281914	286083.93	282133	286493.53	284384	291199.47	285544	292664.23
		2op	285537	285537	281577	285008.8	287631	292044.47	285646	292979.47
51	500K	rnd	281233	285773.73	281233	285773.73	281233	285773.73	285168	291344.6
		2op	285537	285537	285537	285537	285537	285537	285643	289967.83
	5M	rnd	280255	285703.1	280255	285848.03	285239	290555.4	285022	291834.8
		2op	284781	285511.8	280708	284600.73	283136	288442.8	285853	291971.67

Table A.280: *pr1002*: transRR With Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
51	500K	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537

Table A.281: *pr1002*: basicRR+RS With Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	282422	286026.5	282422	286026.5	282232	286451.87	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	280995	286115.73	280271	286523.1	282232	286455.8	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
51	500K	rnd	280793	285441.87	280793	285441.87	280793	285441.87	281958	285586.07
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	281507	285701.53	281507	285898.37	283041	286134.23	281958	285586.07
		2op	283505	285469.27	283505	285469.27	285537	285537	285537	285537

Table A.282: *pr1002*: transRR+RS With Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
51	500K	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537

Table A.283: *pr1002*: basicRR+IM With Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	280826	285676.67	280826	285676.67	281551	286611.63	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
51	500K	rnd	284844	284844	284844	284844	284844	284844	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537
	5M	rnd	282506	286068.47	282506	286068.47	282506	286068.47	284844	284844
		2op	285537	285537	285537	285537	285537	285537	285537	285537

Table A.284: *pr1002*: transRR+IM With Post Optimization – Suspected Optimal Score is 259045

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	283938	292166.53	283938	292166.53	283938	292166.53	291227	291227
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	281367	290337.63	281367	290337.63	282348	291357.07	291227	291227
		2op	287163	287163	287163	287163	287163	287163	287163	287163
51	500K	rnd	277989	291814.23	277989	291814.23	277989	291814.23	278628	291307.7
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	280709	290849.23	280709	290849.23	280709	291021.17	278628	290357.7
		2op	287163	287163	287163	287163	287163	287163	287163	287163

Table A.285: $r/1304$: basicRR With Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	280659	289236.1	280659	289236.1	280831	289250.63	276191	289983.6
		2op	287163	287163	287163	287163	274919	280966.83	283636	290876.77
	5M	rnd	277740	289687.27	284313	290350.67	282642	291174.1	281817	290824.7
		2op	286262	287119.17	275096	280401.2	281035	290353.3	280762	290908.53
51	500K	rnd	283299	289461.07	283299	289461.07	283299	289461.07	282760	290661.93
		2op	287163	287163	287163	287163	287163	287163	275450	281509.37
	5M	rnd	282642	291435.97	282642	291399	281215	291222.23	280199	290640.93
		2op	285736	287041.5	284923	286747.63	273670	280076.93	279452	290714.13

Table A.286: $r/1304$: transRR With Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	285095	291298	285095	291298	285095	291298	291227	291227
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	282647	291230.27	282647	291230.27	277583	292271.77	291227	291227
		2op	287163	287163	287163	287163	287163	287163	287163	287163
51	500K	rnd	282555	290410.9	282555	290410.9	282555	290410.9	281197	291579.33
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	285300	292375.27	285300	292375.27	285300	292359.7	281197	292045.37
		2op	287163	287163	287163	287163	287163	287163	287163	287163

Table A.287: $r/1304$: basicRR+RS With Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	277355	290334.8	277355	290334.8	283951	290398.63	282245	291126.8
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	280850	289913.93	279970	291380.13	281406	290198.03	282245	291126.8
		2op	285977	287094.1	287163	287163	287163	287163	287163	287163
51	500K	rnd	280996	290985.13	280996	290985.13	280996	290985.13	280995	289312.27
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	283800	290554.23	283800	290474.27	274838	289451.13	280995	289312.27
		2op	286031	287087.83	285390	287066.17	287163	287163	287163	287163

Table A.288: $r/l1304$: transRR+RS With Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	291227	291227	291227	291227	291227	291227	291227	291227
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	282632	291699.87	282632	291699.87	283230	291750.9	291227	291227
		2op	287163	287163	287163	287163	287163	287163	287163	287163
51	500K	rnd	291227	291227	291227	291227	291227	291227	291227	291227
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	284168	290334.87	284168	290334.87	284168	290334.87	284741	291110.67
		2op	287163	287163	287163	287163	287163	287163	287163	287163

Table A.289: $r/l1304$: basicRR+IM With Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	278493	289987	278493	289987	278493	289987	280689	289846
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	283635	290833.3	283635	290833.3	280615	290811.3	280689	289761.77
		2op	287163	287163	287163	287163	287163	287163	287163	287163
51	500K	rnd	282662	290502.07	282662	290502.07	282662	290502.07	282662	290502.07
		2op	287163	287163	287163	287163	287163	287163	287163	287163
	5M	rnd	276012	290097.1	276012	290097.1	276012	290097.1	280774	292167.4
		2op	287163	287163	287163	287163	287163	287163	287163	287163

Table A.290: $r/l1304$: transRR+IM With Post Optimization – Suspected Optimal Score is 252948

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	300761	309681.33	300761	309681.33	299200	309416.2	308326	308326
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	299565	310131.13	299565	310131.13	295860	307723.43	308326	308326
		2op	307805	307805	307805	307805	307805	307805	307805	307805
51	500K	rnd	301009	309927.17	301009	309927.17	301009	309927.17	296573	309270.93
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	301155	307927.87	301155	307927.87	301155	308028.67	296573	309303.1
		2op	307805	307805	307805	307805	307805	307805	307805	307805

Table A.291: $r/1323$: basicRR With Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	299203	309381.37	299203	309381.37	303516	309710.8	295826	307476.37
		2op	307805	307805	307805	307805	295776	303864.93	302493	310041.03
	5M	rnd	302025	309610.87	304457	309713.53	298674	307349	295679	309465.8
		2op	307805	307805	298564	301065.27	299822	308254.1	298869	309430.37
51	500K	rnd	299361	308733.9	299361	308733.9	299361	308733.9	298938	309611.2
		2op	307805	307805	307805	307805	307805	307805	298996	304914.57
	5M	rnd	299611	309925.73	299611	309607.27	300977	308747.9	294922	308051.33
		2op	307165	307770.27	303324	306890.2	297573	303150.6	301512	309780.1

Table A.292: $r/1323$: transRR With Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	299748	309549.93	299748	309549.93	299748	309549.93	308326	308326
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	301705	309651.3	301705	309651.3	298259	309023.37	308326	308326
		2op	307805	307805	307805	307805	307805	307805	307805	307805
51	500K	rnd	296089	308129.27	296089	308129.27	296089	308129.27	302924	309235.9
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	300879	311658.3	300879	311658.3	300879	311658.3	299755	308528.43
		2op	307805	307805	307805	307805	307805	307805	307805	307805

Table A.293: $r/1323$: basicRR+RS With Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	301949	310250.57	301949	310250.57	300587	310532.6	298880	307761.67
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	299588	307709.47	301343	308974.13	300587	309568.8	298880	307761.67
		2op	304706	307701.7	307805	307805	307805	307805	307805	307805
51	500K	rnd	294536	307850.97	294536	307850.97	294536	307850.97	298840	308549.07
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	301978	308189.8	301978	309283.37	298814	306510.73	298840	308549.07
		2op	307805	307805	307805	307805	307805	307805	307805	307805

Table A.294: $r/l1323$: transRR+RS With Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	308326	308326	308326	308326	308326	308326	308326	308326
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	299083	310365.3	299083	310365.3	303765	310945.6	308326	308326
		2op	307805	307805	307805	307805	307805	307805	307805	307805
51	500K	rnd	308326	308326	308326	308326	308326	308326	308326	308326
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	301464	309409.07	301464	309409.07	301464	309409.07	303922	308336.8
		2op	307805	307805	307805	307805	307805	307805	307805	307805

Table A.295: $r/l1323$: basicRR+IM With Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	301643	309297.13	301643	309297.13	301643	309297.13	306168	308505.43
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	301685	309297.2	301685	309297.2	297374	309703.77	306833	308374.67
		2op	307805	307805	307805	307805	307805	307805	307805	307805
51	500K	rnd	308326	308326	308326	308326	308326	308326	308326	308326
		2op	307805	307805	307805	307805	307805	307805	307805	307805
	5M	rnd	302451	310940.87	302451	310940.87	302451	310940.87	302351	308775.47
		2op	307805	307805	307805	307805	307805	307805	307805	307805

Table A.296: $r/l1323$: transRR+IM With Post Optimization – Suspected Optimal Score is 270199

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	353597	363033.87	353597	363033.87	353597	363033.87	351215	367262.5
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	352908	362996.3	352908	362996.3	353753	362160.87	351215	367262.5
		2op	368831	368831	368831	368831	368831	368831	368831	368831
51	500K	rnd	349719	361503.57	349719	361503.57	349719	361503.57	349719	361240.3
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	354474	361609.87	354474	361609.87	354474	361609.87	353775	362590.03
		2op	368831	368831	368831	368831	368831	368831	368831	368831

Table A.297: $r/1889$: basicRR With Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	353757	362356.63	353757	362356.63	353757	362156.9	358243	363089.73
		2op	368831	368831	368831	368831	353462	368162.43	357238	363274.37
	5M	rnd	355619	361690.37	356631	364834.27	353152	362414.7	350515	361966.53
		2op	368831	368831	351026	355775.57	353146	362793.5	354704	362610.87
51	500K	rnd	354182	361682.6	354182	361682.6	354182	361682.6	352380	363103.4
		2op	368831	368831	368831	368831	368831	368831	350587	358339.17
	5M	rnd	352881	362089.87	352881	362089.87	354086	362352.7	352789	362563.7
		2op	365077	368705.87	365077	368705.87	349806	356296	353746	362477.2

Table A.298: $r/1889$: transRR With Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	354851	362711.77	354851	362711.77	354851	362711.77	357105	368110.07
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	354248	361092.23	354248	361092.23	355057	362339.4	357105	368110.07
		2op	368831	368831	368831	368831	368831	368831	368831	368831
51	500K	rnd	353836	363925.13	353836	363925.13	353836	363925.13	353836	362803.37
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	348189	363542.3	348189	363542.3	348189	363542.3	350655	361985.2
		2op	368831	368831	368831	368831	368831	368831	368831	368831

Table A.299: $r/1889$: basicRR+RS With Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	350445	361083.37	350445	361083.37	350445	361241.13	348719	361900.2
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	355807	363632.43	354312	362111.87	351202	361231.77	348719	361900.2
		2op	366346	368682.93	368831	368831	368831	368831	368831	368831
51	500K	rnd	352474	360778.83	352474	360778.83	352474	360778.83	349798	362279.27
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	351081	361816.33	351081	361816.33	351272	360070.23	349798	362858.93
		2op	366769	368762.27	366769	368762.27	368831	368831	368831	368831

Table A.300: r/l 1889: transRR+RS With Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	368831	368831	368831	368831	368831	368831	368831	368831
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	349152	362083.9	349152	362083.9	349152	362083.9	368831	368831
		2op	368831	368831	368831	368831	368831	368831	368831	368831
51	500K	rnd	368831	368831	368831	368831	368831	368831	368831	368831
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	352378	361827.53	352378	361827.53	352378	361827.53	356440	363151.67
		2op	368831	368831	368831	368831	368831	368831	368831	368831

Table A.301: r/l 1889: basicRR+IM With Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	352806	362361.77	352806	362361.77	352806	362361.77	352806	361765.33
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	351276	361194.2	351276	361194.2	352852	361456.03	351988	360842.17
		2op	368831	368831	368831	368831	368831	368831	368831	368831
51	500K	rnd	348947	361407.83	348947	361407.83	348947	361407.83	348947	361407.83
		2op	368831	368831	368831	368831	368831	368831	368831	368831
	5M	rnd	355523	360834.03	355523	360834.03	355523	360834.03	356786	363834.53
		2op	368831	368831	368831	368831	368831	368831	368831	368831

Table A.302: r/l 1889: transRR+IM With Post Optimization – Suspected Optimal Score is 316536

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
51	500K	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394

Table A.303: $u1060$: basicRR With Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	248097	248687.83	248097	248687.83	242114	246293.7	246307	252157.23
		2op	248394	248394	248394	248394	242915	246192	246679	252152.3
	5M	rnd	246506	248392.77	244237	246834.47	246014	252096.67	246228	252908.73
		2op	248394	248394	243813	246262.57	247833	252300.57	247790	252473.23
51	500K	rnd	247387	248540.93	247387	248540.93	247387	248540.93	243767	248296.17
		2op	248394	248394	248394	248394	248394	248394	243883	248185.9
	5M	rnd	246500	248080.77	245344	247840.03	244013	247852.73	246629	251591.1
		2op	248394	248394	246972	248057.37	243653	248341.23	246691	251202.2

Table A.304: $u1060$: transRR With Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
51	500K	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394

Table A.305: $u1060$: basicRR+RS With Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	246226	248643.17	246226	248643.17	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	245151	248244.13	244570	248175.37	248769	248769	248769	248769
		2op	247375	248360.03	248394	248394	248394	248394	248394	248394
51	500K	rnd	245394	248462.17	245394	248462.17	245394	248462.17	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	246554	248117.63	245338	248095.73	245685	247921.03	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394

Table A.306: $u1060$: transRR+RS With Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
51	500K	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394

Table A.307: $u1060$: basicRR+IM With Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	245609	247966.23	245609	247966.23	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
51	500K	rnd	248769	248769	248769	248769	248769	248769	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394
	5M	rnd	246044	247701.5	246044	247701.5	246044	247701.5	248769	248769
		2op	248394	248394	248394	248394	248394	248394	248394	248394

Table A.308: $u1060$: transRR+IM With Post Optimization – Suspected Optimal Score is 224094

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
51	500K	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059

Table A.309: $u1432$: basicRR With Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	168246	169829.17	168246	169829.17	167730	170057.53	172535	175018.53
		2op	170059	170059	170059	170059	168777	170132.13	171117	174403.87
	5M	rnd	168691	169777.87	169338	170693.83	171944	174661.5	172180	174114.5
		2op	168540	170008.37	168598	170122.63	171741	174451.73	172230	174758.27
51	500K	rnd	168369	169813.8	168369	169813.8	168369	169813.8	170816	172709.9
		2op	170059	170059	170059	170059	170059	170059	168411	172453.07
	5M	rnd	168884	169773.37	169020	169840	169997	171791.33	172279	174814.4
		2op	168467	169930.6	169056	169907.63	169133	171785.37	171718	174605.27

Table A.310: $u1432$: transRR With Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
51	500K	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059

Table A.311: $u1432$: basicRR+RS With Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	168894	169800.3	168894	169800.3	169575	169630.2	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	169347	169969.83	168835	169989.37	169057	169625.57	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
51	500K	rnd	167974	169869.23	167974	169869.23	167974	169869.23	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	168324	169874.3	168324	169885.17	168041	169966.3	169575	169575
		2op	168931	170021.4	168931	170021.4	170059	170059	170059	170059

Table A.312: $u1432$: transRR+RS With Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
51	500K	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059

Table A.313: $u1432$: basicRR+IM With Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	168591	170001.83	168591	170001.83	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
51	500K	rnd	169575	169575	169575	169575	169575	169575	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059
	5M	rnd	168890	169916.7	168890	169916.7	168890	169916.7	169575	169575
		2op	170059	170059	170059	170059	170059	170059	170059	170059

Table A.314: $u1432$: transRR+IM With Post Optimization – Suspected Optimal Score is 152970

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
51	500K	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378

Table A.315: $u1817$: basicRR With Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	65378	65378	65378	65378	64502	65405.7	65682	67262.97
		2op	65378	65378	65378	65378	63819	65239.33	64473	67406.87
	5M	rnd	65205	65623.43	64537	65270.6	66209	67339.97	66029	67355.8
		2op	65378	65378	63886	64617.77	65805	67297.9	65238	67450.1
51	500K	rnd	65378	65378	65378	65378	65378	65378	64875	66127.5
		2op	65378	65378	65378	65378	65378	65378	64772	65886.53
	5M	rnd	64985	65520.1	64985	65503.7	65190	66035.27	65538	67283.6
		2op	64805	65358.9	64592	65227.27	64583	65356.97	66316	67380.93

Table A.316: $u1817$: transRR With Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
51	500K	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378

Table A.317: $u1817$: basicRR+RS With Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	64977	65445.33	64908	65495.9	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
51	500K	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	64758	65490.33	64758	65487.9	64880	65487.07	65378	65378
		2op	64883	65350.73	64883	65350.73	65378	65378	65378	65378

Table A.318: $u1817$: transRR+RS With Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
51	500K	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378

Table A.319: $u1817$: basicRR+IM With Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
51	500K	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378
	5M	rnd	65378	65378	65378	65378	65378	65378	65378	65378
		2op	65378	65378	65378	65378	65378	65378	65378	65378

Table A.320: $u1817$: transRR+IM With Post Optimization – Suspected Optimal Score is 57201

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	257655	269860.2	257655	269860.2	257655	269860.2	263047	269165
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	264700	270102.83	264700	270102.83	262428	269337.13	263047	269165
		2op	273289	273289	273289	273289	273289	273289	273289	273289
51	500K	rnd	262821	269497.87	262821	269497.87	262821	269497.87	262821	269529.87
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	265754	270156.7	265754	270156.7	265754	270204.73	264501	270321.63
		2op	273289	273289	273289	273289	273289	273289	273289	273289

Table A.321: *vm1084*: basicRR With Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	263793	270618.47	263793	270618.47	264707	268201.93	260540	270304.93
		2op	273289	273289	273289	273289	262132	267696.4	263403	270224.73
	5M	rnd	263233	269844.83	264199	268717.43	266416	272018.37	263171	268905.93
		2op	272757	273271.27	264989	267771.53	262797	268991.2	264908	270615.13
51	500K	rnd	263461	270581.23	263461	270581.23	263461	270581.23	262293	268953.73
		2op	273289	273289	273289	273289	273289	273289	263177	266839.07
	5M	rnd	264785	269999.63	264785	269990.93	259815	269675.07	264244	269370.53
		2op	271165	273113.97	269706	272220.73	261057	266687.23	263148	270310.2

Table A.322: *vm1084*: transRR With Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	262160	269722.93	262160	269722.93	262160	269722.93	264521	269407.33
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	264513	271198.27	264513	271198.27	265075	270447.83	264521	269407.33
		2op	273289	273289	273289	273289	273289	273289	273289	273289
51	500K	rnd	264599	269561.17	264599	269561.17	264599	269561.17	264599	269576.3
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	262682	270876.47	262682	270876.47	262682	270645.83	265365	270326.93
		2op	273289	273289	273289	273289	273289	273289	273289	273289

Table A.323: *vm1084*: basicRR+RS With Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	261455	268765.6	261455	268765.6	264298	270309.3	261730	269291.9
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	262309	268193.97	262991	269339.23	264298	270254.3	261730	269291.9
		2op	272111	273249.73	273289	273289	273289	273289	273289	273289
51	500K	rnd	262458	270176.87	262458	270176.87	262458	270176.87	264236	269706.73
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	263052	267986.57	263052	268176.47	258388	268691.53	264236	269706.73
		2op	272906	273276.23	272906	273276.23	273289	273289	273289	273289

Table A.324: *vm1084*: transRR+RS With Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	263953	270739.2	263953	270739.2	263953	270739.2	262442	269888.3
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	264528	269968.2	264528	269968.2	264528	270254.23	262442	269888.3
		2op	273289	273289	273289	273289	273289	273289	273289	273289
51	500K	rnd	260765	268817.33	260765	268817.33	260765	268817.33	260765	268817.33
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	261680	268454.97	261680	268454.97	261680	268454.97	264083	269868.43
		2op	273289	273289	273289	273289	273289	273289	273289	273289

Table A.325: *vm1084*: basicRR+IM With Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	263819	269051.47	263819	269051.47	263819	269051.47	263192	270230.23
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	260550	269438.87	260550	269438.87	262531	270938.27	263192	270230.23
		2op	273289	273289	273289	273289	273289	273289	273289	273289
51	500K	rnd	261820	268915.3	261820	268915.3	261820	268915.3	261820	268915.3
		2op	273289	273289	273289	273289	273289	273289	273289	273289
	5M	rnd	264340	268797.43	264340	268797.43	264340	268797.43	263167	269932.7
		2op	273289	273289	273289	273289	273289	273289	273289	273289

Table A.326: *vm1084*: transRR+IM With Post Optimization – Suspected Optimal Score is 239297

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	367356	379429.7	367356	379429.7	367356	379429.7	371440	378619.47
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	370852	379212.83	370852	379212.83	370940	379220.53	371440	378619.47
		2op	379201	379201	379201	379201	379201	379201	379201	379201
51	500K	rnd	371737	379427.27	371737	379427.27	371737	379427.27	371737	379181.37
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	373374	381158	373374	381158	373374	381158	373511	380357.97
		2op	379201	379201	379201	379201	379201	379201	379201	379201

Table A.327: *vm1748*: basicRR With Post Optimization – Suspected Optimal Score is 336556

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	373911	380714.27	373911	380714.27	373911	381256.6	371444	379028.13
		2op	379201	379201	379201	379201	366519	376688.07	371587	378895.37
	5M	rnd	372157	379879	372157	379668.43	370971	379495.47	367582	378373.73
		2op	379201	379201	367930	372609.47	370592	379677.3	372169	379644.13
51	500K	rnd	374648	379590.1	374648	379590.1	374648	379590.1	368780	379029.2
		2op	379201	379201	379201	379201	379201	379201	370107	375457.17
	5M	rnd	373010	380081.27	373010	380081.27	370815	379445.07	372250	379939.27
		2op	376016	379094.83	374261	378696.1	369342	374437.93	370101	379273.5

Table A.328: *vm1748*: transRR With Post Optimization – Suspected Optimal Score is 336556

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	370900	380445.1	370900	380445.1	370900	380445.1	374627	379546.37
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	372257	379350.37	372257	379350.37	373392	380189.1	374627	379546.37
		2op	379201	379201	379201	379201	379201	379201	379201	379201
51	500K	rnd	368218	377854.37	368218	377854.37	368218	377854.37	368218	378056.93
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	371568	380938.53	371568	380938.53	371568	380938.53	374529	380363.27
		2op	379201	379201	379201	379201	379201	379201	379201	379201

Table A.329: *vm1748*: basicRR+RS With Post Optimization – Suspected Optimal Score is 336556

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	370208	379101.17	370208	379101.17	370208	379197.77	374380	379414.5
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	370265	379503.97	370434	379685.37	373525	380582.57	374380	379414.5
		2op	379201	379201	379201	379201	379201	379201	379201	379201
51	500K	rnd	372337	379624.1	372337	379624.1	372337	379624.1	370116	379216.03
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	372368	379045.47	372368	379045.47	374844	381175.23	370116	379216.03
		2op	379201	379201	379201	379201	379201	379201	379201	379201

Table A.330: *vm1748*: transRR+RS With Post Optimization – Suspected Optimal Score is 336556

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	370201	379750.83	370201	379750.83	370201	379750.83	371956	380100.73
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	373706	381179.23	373706	381179.23	373706	381179.23	371956	379563
		2op	379201	379201	379201	379201	379201	379201	379201	379201
51	500K	rnd	373225	379006.93	373225	379006.93	373225	379006.93	373225	379006.93
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	371132	379875.3	371132	379875.3	371132	379875.3	371362	380357.37
		2op	379201	379201	379201	379201	379201	379201	379201	379201

Table A.331: *vm1748*: basicRR+IM With Post Optimization – Suspected Optimal Score is 336556

Parameters			Basic		after 10000		after 1000		after 100	
Pp	Gn	Sd	Mx	Av	Mx	Av	Mx	Av	Mx	Av
11	500K	rnd	371667	379505.7	371667	379505.7	371667	379505.7	373596	379411.93
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	372785	380695.93	372785	380695.93	369669	378293.07	373596	379411.93
		2op	379201	379201	379201	379201	379201	379201	379201	379201
51	500K	rnd	370508	380082.03	370508	380082.03	370508	380082.03	370508	380082.03
		2op	379201	379201	379201	379201	379201	379201	379201	379201
	5M	rnd	372744	379857.9	372744	379857.9	372744	379857.9	370470	378929.1
		2op	379201	379201	379201	379201	379201	379201	379201	379201

Table A.332: *vm1748*: transRR+IM With Post Optimization – Suspected Optimal Score is 336556

A.5 DNA Error Correction

A.5.1 Code 1

Pop	Parameters			1 Restart		15 Restarts		Trans 30 Restarts	
	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	10.47	588.63	14.9	611.17	14.93	591.5
			2	8.27	558.93	12.7	584.87	14.03	569.33
			3	4.67	505.47	8	533.6	8.4	509.7
		Ver	1	9.5	586.03	13.43	606.63	13.77	590
			2	7.7	562.07	11.93	588.97	13.07	571.7
			3	4.93	506.9	6.77	531.63	7.37	514.73
	2	Train	1	10.4	609.1	15.97	605.4	15.73	606.53
			2	9.33	579.53	13.37	571	13.03	573.5
			3	5.9	527.27	8.63	518.1	8.03	517.47
		Ver	1	10	607.4	14.63	599.9	14	601.33
			2	9.4	584.07	13.23	576.9	12.53	579.9
			3	5.5	528.63	6.8	515.33	6.07	515.33
	7	Train	1	11.23	611.23	16.47	594.07	16.3	583.03
			2	9	580.87	15.17	562.43	16.87	560.6
			3	5.03	531.83	8.6	499.57	9.7	490.3
		Ver	1	10.73	608.17	15.13	588.1	15.87	580.43
			2	8.9	587.27	14.47	567.17	14.8	561.07
			3	5.07	530.1	7.2	498.47	8.67	493.37
	12	Train	1	14.33	590.43	15.73	605.63	15.07	608.3
			2	10.03	560.43	13.03	572.43	12.87	582.03
			3	6.2	510.7	9.07	523.93	8.5	533.6
		Ver	1	13.63	587.27	14.83	602	14.3	605.3
			2	10.63	568.93	12.8	579.07	12.13	584.87
			3	6.37	514	6.53	525.37	6.53	532.37
25	1	Train	1	13.33	593.17	16.53	593.73	15.8	607.1
			2	10.13	563.9	14.57	567.93	13.77	582.27
			3	5.4	508.3	8.7	511.07	8.3	529.43
		Ver	1	12.23	591.27	15.97	590.37	15.13	603.87
			2	9.33	568.57	13.6	570.8	12.6	584
			3	5.87	508.73	7.23	510.47	6.87	527.77
	2	Train	1	11.63	607.63	14.4	611.67	16.07	616.37
			2	9.43	581.87	11.83	590.13	12.23	590
			3	5.23	535.17	7.33	545.2	7.57	544.5
		Ver	1	11.87	607.37	13.4	609.5	14.1	613.63
			2	8.7	585.97	11.17	593.67	12.33	594.17
			3	4.83	538.17	5.87	545.27	5.67	542.1
	7	Train	1	14.23	607.5	14.83	594.77	14.53	607.1
			2	12	575.37	14.83	573.53	13.23	576.57
			3	7.13	521.63	9.33	511.7	8.97	524.6
		Ver	1	13.8	605.2	14.77	591.73	13.57	603.33
			2	11.1	581.2	12.93	574	12.83	580.9
			3	6.53	522.6	7.8	511.83	6.87	524.17
	12	Train	1	17.17	593.4	14.87	608.7	16.23	596.9
			2	14.1	566.63	12.8	578.37	14.43	572.93
			3	7.87	507.23	8.7	530.07	8.73	515.53
		Ver	1	16.07	588.3	13.7	604.83	15.47	593.2
			2	12.37	570.83	12.6	583.73	13.27	575.4
			3	7.7	508.83	6.8	528.87	7.97	515.57
51	1	Train	1	12.93	610.93	17.13	596	13.8	613.7
			2	10.7	581.97	13.73	557.83	11.37	588.17
			3	6.07	535.07	9.43	508.17	7.73	540.13
		Ver	1	12.37	608.8	15.6	590.73	12.63	610.77
			2	9.67	587.43	14.03	565.03	10.9	592.4
			3	5.23	536.2	7.23	506.07	5.97	538.07
	2	Train	1	14.07	588.63	14.77	610.03	16.23	600.43
			2	12.27	565.7	13.33	582.83	16.13	569.97
			3	7.63	507.3	8.5	531.1	9.47	504.17
		Ver	1	13.57	588.9	14.1	605.97	15.5	595.8
			2	11.07	569.13	12.23	587.07	15	573.2
			3	6.03	509.57	6.37	530.67	7.13	503.77
	7	Train	1	15.13	610.17	15.6	605.57	15	609.57
			2	12.3	580	13.83	574.33	12.17	583.7
			3	7.67	531.63	8.7	517.27	7.87	535.63
		Ver	1	14.6	608.87	14.77	601.6	14.07	605.97
			2	11.87	585.37	12.87	579.57	11.73	588.2
			3	7	530.7	7.4	517.47	6.23	534.17
	12	Train	1	15.87	611.13	14.17	596.83	16.2	602.1
			2	13.7	579.97	14.03	568.77	14.3	577.43
			3	8.43	525.37	9.87	512.3	8.67	519.73
		Ver	1	14.7	607.63	13.73	591.73	15.63	598.43
			2	12.8	583	12.6	571.53	12.83	581.07
			3	6.63	521.43	8.13	511.2	7.53	519

Table A.333: 2 States – $(12, 55, 7)_4$ – Perfect Score is 660 and fuzzy tolerance of 2

Parameters				1 Restart		15 Restarts		Trans 30 Restarts	
Pop	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	47.8	539.43	66.4	548.03	74.17	662.4
			2	33.8	484.67	49.1	497.27	52.77	641.77
			3	18.5	402.43	27.1	404.83	30.8	573.3
		Ver	1	47.13	536.07	64.6	549.17	70.97	666.3
			2	33.03	491.83	46.2	498.27	49.87	642.73
			3	17.63	405.57	25.23	409.37	27.43	578.87
	2	Train	1	44.63	524.77	62.93	576	72.3	646.47
			2	31.63	468.77	48.97	522.57	55.93	622.77
			3	15.73	382.13	26.9	433.83	28.03	553.9
		Ver	1	44.43	527.2	58.7	573.23	70.27	647.53
			2	30.3	473.7	46.2	524.4	50.93	619.5
			3	16.67	381.7	24.47	432.53	26.63	558.23
	7	Train	1	53.2	540.43	70.6	563.03	73.17	634.57
			2	36.03	483.7	52.27	502.47	60.5	613.17
			3	18.87	395.83	28.7	404.77	30.43	536.9
		Ver	1	51.33	537.1	66.3	557.7	71.4	637.67
			2	33.73	492.27	48.2	505.77	57.37	609.87
			3	18.73	400.53	27.97	403.5	29.63	542.9
	12	Train	1	61.57	529.97	62.83	572.03	59.63	670.03
			2	42.03	480.57	47.37	525.53	43.57	647.63
			3	21.7	389.07	26.6	437.97	23.57	586.1
		Ver	1	60	531.53	60.33	568.97	56.07	671.23
			2	40.53	480.13	44.9	524.8	40.93	647.97
			3	21.8	389.73	24.03	435.93	20.83	592.1
25	1	Train	1	58.33	530.4	72.1	547.87	74.77	652.77
			2	42.77	477.2	54.33	495.73	55.33	629.5
			3	21.8	387.37	28.5	400.5	29.7	561.17
		Ver	1	56.7	526.93	71.33	547.8	70.3	653.87
			2	42.23	481.83	51.63	496.27	52.2	628.5
			3	22.4	388.13	26.73	396.23	29.27	566.27
	2	Train	1	51.73	531.4	71.6	547.13	77.73	672.47
			2	38.77	471.07	50.4	491.8	58.53	653.77
			3	19.37	384.17	26.3	400.73	31.43	589.6
		Ver	1	49.6	530.63	68.7	544.17	75.97	675.1
			2	37.9	473.93	48.6	493.47	56.43	649.17
			3	19.17	381.27	26.3	401	30.73	592.2
	7	Train	1	56.1	555.57	69.07	570.93	77.5	658.87
			2	39.5	496.03	53.8	515.2	52.97	632.87
			3	20.17	419.7	28.1	427.13	27.43	569.6
		Ver	1	54.13	550.87	67.17	569	74.07	659.27
			2	35.93	501.3	50	517.73	50.9	633.6
			3	20.53	417.23	26.27	425.27	27.47	573.6
	12	Train	1	59.47	565.33	75.3	561.2	68.2	651.1
			2	40.13	510.7	55.2	505.93	51.03	631.77
			3	23	430.73	29.27	406.8	26.77	570.37
		Ver	1	56.2	560.7	71.5	555.7	63.07	652.57
			2	39.1	513.33	51.8	505.97	47.37	628.13
			3	22.5	433.7	28.2	405.83	24.77	573.03
51	1	Train	1	66.93	530.1	64.6	570.07	78.73	667.43
			2	46.6	477.73	47.83	520.4	60.43	642.87
			3	24.9	390.63	26.83	442.33	34.17	582.23
		Ver	1	65.87	527.87	63.77	570.23	76.73	667.9
			2	43.3	479.03	44.73	521.9	60.13	645.37
			3	21.1	390.1	24.43	437.33	30.3	586.6
	2	Train	1	54.97	562.37	74.13	562.53	74.23	650.43
			2	38.9	516.9	57.5	510.43	52.27	622.73
			3	22.03	434.97	31.57	419.6	30.7	549.43
		Ver	1	52.67	561.37	69.17	558.87	69.47	651.7
			2	36.7	516.9	54.7	512.73	49	619.77
			3	19.37	435.67	26.67	417.1	27.9	552.87
	7	Train	1	61.57	549.33	66.73	565.4	82.37	665.87
			2	44.77	496.93	53.6	515.77	59.2	645.23
			3	23.37	415.47	29.7	428.73	32	584.8
		Ver	1	59.4	546	65.93	562.47	77.6	667.1
			2	43	498.93	50.23	517.2	56.93	642.97
			3	21.57	406.23	25.33	426.93	30.47	587.63
	12	Train	1	74	530.67	79.83	562.27	75.63	649.47
			2	49.47	479.33	62.27	509.57	55.63	626.63
			3	27.87	390	35.77	405.87	31.27	556.77
		Ver	1	70	525.63	76.23	558.1	72.33	650.63
			2	48.77	480.67	61.53	511.37	53.57	626.17
			3	27.03	388.07	30.8	402.03	27.97	559.43

Table A.334: 3 States – $(12, 55, 7)_4$ – Perfect Score is 660 and fuzzy tolerance of 2

Pop	Parameters			1 Restart		15 Restarts		Trans 30 Restarts	
	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	109.3	433.37	133.77	490.37	141.33	508.73
			2	64.17	348.33	92.97	410.93	98.37	421.73
			3	32.2	247.83	45.2	286.7	49.57	298.47
		Ver	1	107.1	426.23	127.87	485.53	132.53	500.13
			2	63.73	352.2	90.47	416.4	93.23	422.53
			3	31.2	249	43.47	287.27	46.7	298.73
	2	Train	1	113.17	458.83	135.83	494.6	134.57	494.4
			2	63.33	377.57	93.83	421.1	96.17	418.53
			3	32.23	278.17	47.63	304.77	48.53	291.33
		Ver	1	107.93	454.6	131	492.6	127.07	492.63
			2	63.3	380.2	92.7	425.33	93.37	419.87
			3	31.7	278.77	43.8	301.83	45	292.37
	7	Train	1	112.57	454.67	130.57	511.73	137.83	494.1
			2	69.6	378.83	90.53	426.03	91.87	413.87
			3	34.1	274.07	47.23	307.87	46.37	299.13
		Ver	1	110.3	446.63	124.37	506.8	136.1	489.17
			2	68.5	385.17	84.33	428.2	85.47	416.97
			3	34.7	275.67	39.3	304.43	42.4	299.17
	12	Train	1	108.23	464.63	132.9	481.93	130.3	507.27
			2	64.23	387.63	89.73	404.53	85.93	422.9
			3	33.5	285.23	44.57	288.67	43.9	305.13
		Ver	1	107	461.33	129.37	479.67	121.8	504.37
			2	63.57	392	86.73	407.3	81.3	425.37
			3	30.2	285.6	42.93	288.13	43.43	306.8
25	1	Train	1	115.53	468.53	139.5	498.13	134.53	506.03
			2	71.47	392.43	100.1	418.6	93.07	427.57
			3	34.77	278.93	51.83	288.4	47.13	306.9
		Ver	1	112.17	463.63	134.13	493.37	131.5	501
			2	70.5	393.93	94.8	424.97	91.07	426.93
			3	37.17	283.3	46.07	286.5	45.73	302.67
	2	Train	1	108.57	476.07	123.8	520.57	131.13	512.53
			2	63.63	392.4	85.8	446.4	85.8	427.13
			3	30.6	292.43	44.77	337.27	43.63	312.53
		Ver	1	105.8	471.4	120.5	518.7	124.97	509.07
			2	61.93	392.47	79.53	447.07	81.4	428.47
			3	32.23	295.93	41.67	335.03	41.27	311.97
	7	Train	1	98.5	484.4	136.33	492.6	131.1	503.93
			2	64.87	403.27	92.1	411.33	92.27	420.9
			3	31.77	294.07	45.97	294.17	44.63	311.43
		Ver	1	95.23	482.1	127.57	486.67	125.47	501
			2	63.83	409.13	85.33	415.6	85.6	427.9
			3	31	298.53	40.83	294.4	42.63	312.53
	12	Train	1	118.7	467	142.7	502.23	140.13	497.4
			2	71.07	386	95.27	421.97	97.23	413.9
			3	32.8	284.87	47.43	305.23	48.07	296.5
		Ver	1	117.07	463.07	137.93	497.7	134.13	492.97
			2	67.6	389.73	89.93	424.67	93.3	420.23
			3	33.33	286.3	44.2	307.7	45.23	292.07
51	1	Train	1	108.03	485.2	156	493.4	129.5	503.97
			2	65.57	411.53	103.13	415.83	89.67	423.13
			3	34.47	307.53	50.1	292.2	42.63	304.07
		Ver	1	103.2	480.7	150.1	488.8	124.53	501.7
			2	62.87	413.1	97.87	418.13	83.4	423.63
			3	34.27	309.43	49.23	292.1	41.63	303.77
	2	Train	1	111.57	460.93	136.97	522.5	138.7	501.97
			2	73.97	381.23	93.7	438.7	95.87	426.37
			3	35.1	271.27	48.37	323.17	48.6	302.33
		Ver	1	109.7	459.27	130.6	515.93	131.73	499.6
			2	72.8	383.17	87.87	440.57	90.57	425.2
			3	32.27	266.8	46.47	321.1	45.43	305.1
	7	Train	1	115.63	479.83	132.43	508.13	132.53	507.87
			2	71.67	398.3	90.2	432.83	87.3	423.13
			3	37.03	293.77	45.67	323.5	46.43	309.67
		Ver	1	114.13	472.87	126.7	508.57	126.3	506.67
			2	69.87	400.8	88.23	441.47	78.77	425.07
			3	35.53	290	42.57	324.17	41.5	310.47
	12	Train	1	119.1	480.73	139.9	514.67	132.97	508.73
			2	75.37	397.27	90.63	433.13	90.63	430.9
			3	38.47	293.2	43.87	319.8	44.83	310.07
		Ver	1	120.93	479.27	134.7	514.47	128.03	505.63
			2	72.53	403.7	85.57	439.2	86.8	428.87
			3	35.33	294.03	42.53	319.83	43.93	308.77

Table A.335: 4 States – $(12, 55, 7)_4$ – Perfect Score is 660 and fuzzy tolerance of 2

Pop	Parameters			Trans 30 Restarts	
	Muts	Type	Dist	Exact	Fuzzy
11	1	Train	1	141.33	612.67
			2	98.37	573.23
			3	49.57	514.23
		Ver	1	132.53	609.77
			2	93.23	576.77
			3	46.7	515.73
	2	Train	1	134.57	603.47
			2	96.17	564.9
			3	48.53	502.33
		Ver	1	127.07	603
			2	93.37	566.97
			3	45	503.5
	7	Train	1	136.03	599.77
			2	93.13	565.17
			3	46.47	505.4
		Ver	1	134.07	598.07
			2	85.17	564.57
			3	42.77	501.13
	12	Train	1	134.73	600.77
			2	88.77	563.3
			3	45.27	504.73
		Ver	1	129.43	597.47
			2	84.03	563.5
			3	42.53	505.77
25	1	Train	1	131.47	600.93
			2	86.87	565.77
			3	45.8	510.7
		Ver	1	127.77	598.2
			2	83.87	565.6
			3	45.13	511.2
	2	Train	1	131.13	605.9
			2	85.8	569.6
			3	43.63	515.27
		Ver	1	124.97	604.2
			2	81.4	572.37
			3	41.27	514.4
	7	Train	1	131.1	602
			2	92.27	563.23
			3	44.63	507.33
		Ver	1	125.47	600.77
			2	85.6	564.07
			3	42.63	504.23
	12	Train	1	140.13	601.67
			2	97.23	561.07
			3	48.07	505.93
		Ver	1	134.13	597.73
			2	93.3	566.03
			3	45.23	498.2
51	1	Train	1	129	614.5
			2	95.5	584.23
			3	46.47	527.73
		Ver	1	125.57	615.1
			2	92.1	585.5
			3	45.47	525.97
	2	Train	1	135.4	608.37
			2	91.4	573.07
			3	46.17	510.87
		Ver	1	129.1	609.27
			2	88.13	574
			3	43.4	512.67
	7	Train	1	126.1	603.7
			2	86.1	567.27
			3	44.9	513.63
		Ver	1	120.87	600.97
			2	76.4	565.67
			3	39.5	512.53
	12	Train	1	132.97	601.5
			2	90.63	566.4
			3	44.83	508.13
		Ver	1	128.03	600.27
			2	86.8	567.5
			3	43.93	507.83
101	1	Train	1	135.23	608.83
			2	95.73	576.37
			3	46.27	516.33
		Ver	1	130.33	607.53
			2	86.77	575.87
			3	42.9	516
	2	Train	1	123.37	614.13
			2	90.63	584.57
			3	45.27	529.73
		Ver	1	121	613.23
			2	87.27	587.27
			3	38.97	532.3
	7	Train	1	136.6	604.33
			2	91.9	568.6
			3	47.5	510.97
		Ver	1	129.1	605.43
			2	83.87	565.97
			3	44.4	505.27
	12	Train	1	140.1	602.67
			2	92.6	568.73
			3	46.93	507.97
		Ver	1	133.37	603.03
			2	88.47	570.67
			3	43.33	506.87

Table A.336: 4 States – $(12, 55, 7)_4$ – Perfect Score is 660 and fuzzy tolerance of 3

A.5.2 Code 2

Parameters				1 Restart		15 Restarts		Trans 30 Restarts	
Pop	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	7.83	649.53	15.3	648.7	14.17	662.4
			2	6.67	625.67	14.5	625	14.1	641.77
			3	3.7	565.3	8.1	560.47	7.63	573.3
		Ver	1	7.4	652.2	13.3	649.2	12.4	666.3
			2	5.53	627.47	12.07	625.67	11.8	642.73
			3	3.43	571.13	8.17	565.17	7.7	578.87
	2	Train	1	11.07	645.53	14.83	662.3	13.8	646.47
			2	8.63	617.7	14.2	634.13	14.73	622.77
			3	5.53	559.2	8.67	573.43	8.77	553.9
		Ver	1	9.5	647.17	13.23	661.83	11.7	647.53
			2	8.03	619.97	12.23	635.37	11.53	619.5
			3	5.23	562.6	7.4	577.2	7.77	558.23
	7	Train	1	8.97	669.93	14.03	649.1	15.7	634.57
			2	8.33	643.77	15.3	625.17	15.37	613.17
			3	4.6	578.6	8.3	550.03	8.83	536.9
		Ver	1	7.43	670.87	12.97	651.73	12.67	637.67
			2	7.23	646.6	12.27	619.8	12.8	609.87
			3	4.97	584.3	8.37	555.8	7.5	542.9
	12	Train	1	11.7	653.97	15.23	672.67	13.6	670.03
			2	10.3	625.87	14.77	646.97	13.1	647.63
			3	7.27	565.77	8.93	574.87	7.27	586.1
		Ver	1	11.13	654.2	13.9	674	12.33	671.23
			2	9.53	627.9	12.8	645.17	11.23	647.97
			3	6.17	567.73	8.03	577.33	7.13	592.1
25	1	Train	1	9.97	658	13.77	661.23	15.6	652.77
			2	9.1	634.53	12.77	642.03	14.1	629.5
			3	5.67	573.5	7.63	579.57	8.1	561.17
		Ver	1	8.83	660	12.2	662.87	13.37	653.87
			2	7.73	637.17	10.77	640.57	12.5	628.5
			3	5.03	576.37	6.63	585.13	7.13	566.27
	2	Train	1	10.5	661.27	10.97	682.37	12.4	672.47
			2	10.33	635.4	10.93	667.73	13.6	653.77
			3	5.13	572.43	6.7	614.73	7.77	589.6
		Ver	1	9.23	661.67	9.9	683.9	11.23	675.1
			2	8.67	638.67	9.23	664.97	10.93	649.17
			3	5.7	572.3	5.47	617.27	7.47	592.2
	7	Train	1	12.73	658.87	15	645.57	14.47	658.87
			2	12.07	630.33	13.37	624.37	13.8	632.87
			3	7.17	558.97	8.37	558.77	8.17	569.6
		Ver	1	11.2	659.53	11.9	647.1	12.83	659.27
			2	10.03	636.83	11.27	623.87	11.83	633.6
			3	7.37	563	5.7	561.87	7.3	573.6
	12	Train	1	16.03	652.03	13.97	670.1	14	651.1
			2	13.73	626.63	12.93	645.53	13	631.77
			3	8.83	560.4	7.53	585.43	7.87	570.37
		Ver	1	14.57	653.6	12.1	670.07	12.27	652.57
			2	11.8	628.87	11.77	646.93	10.83	628.13
			3	6.8	565.03	7.13	589.33	6.4	573.03
51	1	Train	1	11.07	665.1	14.53	663.6	14.53	667.43
			2	9.83	635.03	13.83	635.37	13.17	642.87
			3	5.83	583.2	8.17	570.33	8.03	582.23
		Ver	1	10.03	664.6	13.3	663.83	12.6	667.9
			2	8.5	638.9	12.2	634.4	11.57	645.37
			3	5.93	580.87	7.4	575	7.17	586.6
	2	Train	1	12.6	675.23	14.17	668.77	15	650.43
			2	12.43	651.4	13.87	645.77	15.9	622.73
			3	6.87	592.7	8	579.73	8.63	549.43
		Ver	1	11	677.67	12.53	669.4	13.27	651.7
			2	10.07	654.57	11.9	644.7	13.4	619.77
			3	7.23	595.47	7.67	584.03	7.9	552.87
	7	Train	1	13	667.23	15.3	653.6	12.7	665.87
			2	13.23	643.9	14.23	629.4	12.57	645.23
			3	8.17	585	8.53	558.97	7.77	584.8
		Ver	1	11.7	667.93	12.43	653.9	10.97	667.1
			2	11.27	642.5	12.2	628.77	10.2	642.97
			3	6.73	590.07	7.7	563.17	6.03	587.63
	12	Train	1	14.73	659.17	13.8	657.87	16.13	649.47
			2	14.37	631.1	13.47	633.5	14.6	626.63
			3	7.83	563.13	7.6	569.2	9.3	556.77
		Ver	1	13.13	660.83	12	658.43	13.2	650.63
			2	12.13	636.03	11.37	633.57	12.63	626.17
			3	7.37	566.3	7.23	574.1	7.1	559.43

Table A.340: 2 States – $(12, 60, 7)_4$ one – Perfect Score is 720 and fuzzy tolerance of 2

Pop	Parameters		Dist	1 Restart		15 Restarts		Trans 30 Restarts	
	Muts	Type		Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	46.77	586.23	74.53	598.93	69.03	610.23
			2	32.93	526.3	52.53	547.13	52.8	545.27
			3	16.4	431.53	27.1	449.63	28.17	435.5
		Ver	1	46.7	585.7	70.33	601.53	65.53	610.83
			2	31.17	533.03	47.57	556.9	48.53	551
			3	16.17	440.97	27.77	449.4	25.9	440.47
	2	Train	1	41.33	568.93	60.17	619.73	69.33	612.93
			2	29.7	508.07	46.33	563.47	52.3	557.7
			3	14.63	415.57	25.67	461.87	27.93	454.3
		Ver	1	41.8	572.37	55.33	619.23	66.17	611.93
			2	27.83	513.67	44.1	568.87	49.4	566.67
			3	16.73	419.7	25.17	463.03	26.87	451.6
	7	Train	1	49.4	593.17	69.7	607.8	66.87	600.7
			2	34.33	534.47	49.43	541.7	54	541.9
			3	16.5	437.37	26.6	440.77	27.5	432.77
		Ver	1	50.2	597	63.9	605.47	62.73	598.77
			2	34.43	540.4	45.17	548.67	50.53	545.53
			3	16.8	441.53	24.8	443	26.73	429.57
	12	Train	1	57.7	574.83	59.4	610.63	54.07	635.73
			2	41.43	516.8	46.47	557.93	41.23	590.67
			3	21.33	416.53	22.63	459.83	23.2	504.37
		Ver	1	57.67	577	55.57	606.77	51	635.83
			2	37.87	520.47	40.97	564.57	39.87	594.77
			3	21.13	421.1	22.57	463.5	21.23	500.43
25	1	Train	1	54.77	590.23	67.9	598.7	68.17	587.43
			2	39.77	531.83	50.13	537.87	52	517.2
			3	18.83	428.1	26.93	433.93	28.07	426.23
		Ver	1	53.67	589.9	64.87	599.13	65	582.67
			2	36.27	532.1	46.5	546.67	47.27	525.6
			3	19.57	425.63	26.5	431.3	23.8	420.6
	2	Train	1	51.87	589.07	63.2	622.47	70.63	598.23
			2	35.47	524.9	53.03	558.87	53.83	539.2
			3	19.07	428	26.77	451.57	27.87	432.13
		Ver	1	49.47	589.4	61.53	620.3	65.4	600.7
			2	35.17	530.8	47.97	566.4	51.33	546.43
			3	17.33	432.07	24.9	447.8	25.8	431.3
	7	Train	1	49.73	601.67	63.47	633.23	70.03	601.03
			2	35.27	536.23	50.1	580.27	53.6	542.9
			3	19	455.77	26.5	476.6	27.57	445.27
		Ver	1	50.73	600.77	58.23	633.37	63.97	596.8
			2	33.37	543.6	44.43	581.03	45.83	549.57
			3	19.23	455.47	23.63	475.17	26.5	441.87
	12	Train	1	53.97	614.9	64.97	617.43	63.47	619.1
			2	40.17	562.37	50.73	555.53	48.53	565.4
			3	21.23	465.57	27.53	454.17	26	464.3
		Ver	1	52.57	616.63	62.37	616.23	59.53	622.57
			2	36.1	562.23	46.83	565.13	46.53	573.23
			3	21.4	473	24.63	453.33	23.4	461.17
51	1	Train	1	56.17	587.8	67.93	610.07	78.07	596.9
			2	39.97	531.97	46.6	554.97	59.77	534.77
			3	20.87	433.7	25.1	463.13	30.03	422.17
		Ver	1	55.8	587.6	66.07	609.43	72.77	595.3
			2	37.8	536.8	43.5	556.7	52.13	541.9
			3	20.03	430.8	24.17	465.67	27.57	420.63
	2	Train	1	53.4	593.47	71.6	609.5	70.97	601.57
			2	34.73	537.6	52.47	553.37	51.7	541.53
			3	21.07	457.87	27.17	455.93	25.97	441.3
		Ver	1	52.9	595.63	66.77	608.07	69.03	598.9
			2	32.9	540.2	49.6	560.03	45.63	546.97
			3	17.57	457.17	26	458.6	25.47	443
	7	Train	1	57.53	597.3	60.8	617.83	71	596.97
			2	43.77	548.07	46.93	566.1	54.07	539.57
			3	20.97	445.23	25.63	471.33	26.87	428.33
		Ver	1	57.63	597.33	60.47	618.17	67.83	596.03
			2	42.67	551.07	42.33	569.23	48.37	542.63
			3	22.47	448.23	24.67	471.83	25.77	425.2
	12	Train	1	71.3	580.5	74.03	609.73	66.8	601.53
			2	49.83	522.17	57.3	550.07	49.5	542.73
			3	24.57	414.63	31.73	438.1	25.33	444.7
		Ver	1	69.27	583.37	70.27	605.53	64.37	599.97
			2	44.73	525.33	55.07	556.73	44.2	551.73
			3	26.03	421.83	28.23	438.47	25.4	446.33

Table A.341: 3 States – $(12, 60, 7)_4$ one – Perfect Score is 720 and fuzzy tolerance of 2

Pop	Parameters			1 Restart		15 Restarts		Trans 30 Restarts	
	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	106.8	476.73	126.67	551.7	128.63	559.2
			2	62.13	383.43	82.3	472.43	91.5	468.07
			3	31.87	271.47	42.83	351.37	44.87	339.73
		Ver	1	104.6	475.2	126.07	551	123.6	555.9
			2	61.53	394.43	78.9	480.97	86.37	473.37
			3	30.33	275.33	39.1	353.3	42.03	338.03
	2	Train	1	103.57	487.83	138.4	544.33	116.27	563.23
			2	58.73	391.5	104.53	448.2	72.3	469.07
			3	29.4	285.83	47.9	298.87	38.57	358.5
		Ver	1	103.37	490.63	133.1	538.77	109.33	565.1
			2	57.27	397.9	102	458.27	72.07	477.23
			3	29.67	292.3	44.87	303.1	36.23	360.43
	7	Train	1	111.8	496.27	129.1	548.47	126.77	546.4
			2	66.87	410.17	81.93	458.43	92.67	464.03
			3	32.33	290.93	40.17	340.4	43.73	328.73
		Ver	1	109.8	494.97	120.1	543.4	123.1	547.77
			2	64.13	412.83	77.73	463.47	84.47	468.47
			3	33.67	296.47	37.87	338.57	41.33	330.23
	12	Train	1	100.83	513.47	127.73	549	135.1	558.6
			2	60.2	427.2	86.77	462.53	94.13	476.1
			3	29.07	311.8	42.2	336.03	44.53	348.07
		Ver	1	99.9	516.73	122.27	548.37	129.83	555.4
			2	56.4	431.03	82.37	471.93	86.2	483.03
			3	30.73	316.4	38.93	330	44.53	346.43
25	1	Train	1	112.53	504.67	139.83	533.07	125.83	541.2
			2	67.6	425.2	92.5	447.63	81.87	464.13
			3	32.87	310.7	46.67	322.83	40.27	341.53
		Ver	1	111.03	505.03	133.03	531.93	124.53	546.33
			2	66.17	421.5	90.4	458.73	77.73	468.13
			3	34.03	308.63	41.27	322.33	38.67	342.23
	2	Train	1	109.1	530.03	125.4	549.4	138.33	541.37
			2	63.7	445.07	86.27	475.93	88.67	452.83
			3	33.23	335.8	43.97	356.3	43.77	323.67
		Ver	1	106.17	530.73	123.13	549.2	131.83	540.2
			2	62.2	449.37	83.23	484.17	83.83	455.23
			3	31.77	334.37	40.37	349.4	41.73	322.23
	7	Train	1	93	528.27	124.9	545.8	139.83	525.47
			2	63.1	439.2	82.6	452.97	91	444.37
			3	29.6	319.3	41.67	327.83	43.2	318.53
		Ver	1	93	529.9	119.57	543.37	132.43	524.93
			2	60.83	441.7	75.2	458.23	87.27	451.2
			3	28.37	319.93	36.1	325.1	42.33	314.1
	12	Train	1	115.73	508.2	137.1	551.2	134.1	546
			2	66.63	423.07	99.33	458.77	91.6	453.5
			3	31.83	310.87	46.83	321.03	45.8	321.77
		Ver	1	108.8	506.8	127.43	549.87	128.63	541.13
			2	61.3	429.27	94.67	463.57	89.23	457.57
			3	32.83	316.67	44.3	324.6	41.53	322.6
51	1	Train	1	101.27	499.93	141.67	527.6	142.27	539.57
			2	59.5	415.97	94.83	440.77	91.63	450.1
			3	26.9	307.93	43.8	310.23	46.47	322.57
		Ver	1	96.2	499.1	134.83	522.7	136	537.17
			2	55.93	423.43	87.7	447.8	85.2	454.43
			3	29.8	311.63	44.17	312.9	41.4	326.63
	2	Train	1	113.43	493.37	139.37	556.8	125.47	562.57
			2	68.33	399.4	95.2	476.37	93.2	476.23
			3	33.2	283.67	48.1	336.63	43.5	339.37
		Ver	1	111.2	492.5	135.4	555.57	119.67	560.17
			2	66.23	403.13	90.7	485.77	85.73	484.33
			3	34.17	290.57	45.53	339.1	39.53	336.47
	7	Train	1	111.4	529.37	133.47	564.67	136.27	543.93
			2	70	440.4	89.07	490.97	89.5	456.27
			3	36.97	321.63	41.5	364.03	45.3	333.57
		Ver	1	105.73	529.6	124.8	560.57	129.8	540.93
			2	69.8	445.7	82.1	498.27	83.67	466.5
			3	34.9	324.33	40.1	366.67	42.97	332.1
	12	Train	1	113.9	530.47	128.87	561.23	133.57	523.13
			2	74.1	449.17	82.83	465.13	90.13	426.03
			3	35.73	324.03	43	336.57	42.07	300.23
		Ver	1	109.2	530.7	126.87	557.77	125.97	519.3
			2	70.53	448.83	77.33	471.3	80.67	436.17
			3	33.9	327	37.57	340.67	39.23	301.27

Table A.342: 4 States – $(12, 60, 7)_4$ one – Perfect Score is 720 and fuzzy tolerance of 2

Parameters				Trans 30 Restarts	
Pop	Muts	Type	Dist	Exact	Fuzzy
		Train	1	128.63	662.8
			2	91.5	621.03
			3	44.87	555
		Ver	1	123.6	661.3
			2	86.37	622.23
			3	42.03	557.17
		Train	1	118.33	662.77
			2	78.17	622.63
			3	39.73	567.17
		Ver	1	113.47	663.73
			2	74.83	631.5
			3	37.23	571.6
		Train	1	128.87	656.57
			2	93.67	616
			3	44.37	547.1
		Ver	1	125.43	656.03
			2	86.13	620.53
			3	41.9	545.93
		Train	1	135.1	652.8
			2	94.13	614.1
			3	44.53	553.47
		Ver	1	129.83	652.93
			2	86.2	620.13
			3	44.53	554.13
		Train	1	124.47	657.23
			2	82.4	619.3
			3	40.8	557.43
		Ver	1	122.13	657.1
			2	78.47	621.87
			3	38.63	557.13
		Train	1	130.57	654.37
			2	84.47	614.67
			3	42.17	551.83
		Ver	1	123.63	652.9
			2	81.1	613.97
			3	39.73	551.97
		Train	1	139.83	643.4
			2	91	600.67
			3	43.2	528.57
		Ver	1	132.43	642.6
			2	87.27	603.77
			3	42.33	527.87
		Train	1	131.73	653.03
			2	89.57	605.07
			3	44.87	542.83
		Ver	1	125.77	652.03
			2	86.17	610.1
			3	40.27	542.03
		Train	1	141.1	654.37
			2	93.13	612.07
			3	45.7	547.63
		Ver	1	134.1	652.3
			2	87.4	615.47
			3	42.27	547.93
		Train	1	125.47	665.6
			2	93.2	629.07
			3	43.5	565.83
		Ver	1	119.67	664.53
			2	85.73	632.3
			3	39.53	566.37
		Train	1	141.4	643.47
			2	92.03	603.33
			3	46	534.53
		Ver	1	136.53	642.7
			2	85.67	607.5
			3	43.33	534.9
		Train	1	125.57	655.8
			2	83.77	613.5
			3	39.5	552.37
		Ver	1	115.03	653.4
			2	76.17	619.47
			3	37.1	550
		Train	1	126	660.27
			2	92.87	620.2
			3	43.3	554.73
		Ver	1	122.8	658.3
			2	89.63	621.63
			3	41.4	552.33
		Train	1	129.07	658.63
			2	87.23	615.77
			3	42.83	553.83
		Ver	1	120.63	657.3
			2	82.47	622.27
			3	40.47	556.87
		Train	1	124.5	653.63
			2	77.97	610.37
			3	38.97	550.5
		Ver	1	118.2	654.23
			2	73	611.83
			3	34.57	553.53
		Train	1	122.93	659.23
			2	87.1	620.13
			3	44.07	554.1
		Ver	1	119.47	659.13
			2	81.3	623.6
			3	40	555.13

Table A.343: 4 States – $(12, 60, 7)_4$ one – Perfect Score is 720 and fuzzy tolerance of

Pop	Parameters			30% Mutation		4 Restarts		Trans 30 Restarts	
	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	441.47	554.53	445.27	558.03	217.23	626.1
			2	343.17	502.77	344.8	510.57	141.27	562
			3	196.7	379.93	201.97	395.93	65.77	472.63
		Ver	1	440.1	553.87	449.97	564.07	206.07	625.77
			2	342.87	505.3	340.93	517.4	135.8	566.33
			3	191.8	372.93	197.17	391.53	63.77	476.8
		2	1	448.03	561.17	446	558.5	205.93	630.47
			2	348.2	509.1	343.77	509.4	127.9	570.1
			3	206.07	393.93	204.17	395.27	61.53	474.77
		Ver	1	449.6	561.43	446.8	559.27	194.97	629.47
			2	347.53	513.07	340.83	517.07	123.87	571.1
			3	196.3	385.5	193.03	388.73	59.7	477.1
		7	1	451.6	564.1	446.73	561.57	219.37	624.63
			2	354.13	511.2	345.3	512.57	146.07	562.33
			3	211.6	392.73	208.67	400.1	69.6	471.03
		Ver	1	453.7	562.67	446.13	562.57	211.27	624.23
			2	349.03	512.3	342.03	515.23	140.37	564.4
			3	198.9	384	192.33	385.83	63.7	467.53
	12	Train	1	450.37	558.87	446.67	559.3	207.2	628.47
			2	352.13	506.13	344.6	507.63	138.03	565.73
			3	207.13	386.73	201.7	388.03	64.73	475.83
		Ver	1	455.3	559.07	448.97	557.4	203.43	623.5
			2	346.37	510.73	340.33	510.57	132.93	566.77
			3	199.1	381.37	194.2	382.4	62.5	472.07
25	1	Train	1	441.5	551.93	453.87	562.77	209.87	648.67
			2	337.67	497.53	344.63	509.03	136.2	589.8
			3	198.47	386.3	202.63	391.33	62.33	504.27
		Ver	1	441.2	551.83	451.13	559.37	200.87	649.17
			2	340.77	505.87	340.7	511.13	136.43	593.3
			3	188.83	372.6	194	381.97	61.57	504.37
		2	1	455.93	566.17	450.9	564.5	211.2	633.67
			2	350.7	514.37	339.87	512.1	133.33	573.57
			3	207.6	400.87	196.97	394.5	61.73	482.3
		Ver	1	455.83	565.7	451.3	563.3	199.83	631.53
			2	349	518.53	338.17	515.77	127.2	575.23
			3	203.37	392.5	190.3	387.03	56.57	483.37
		7	1	449.57	563.87	452.07	563.9	207.33	643.4
			2	351.9	510.8	344.73	511.77	142.1	583.63
			3	208.5	399.53	211.37	399.87	67.63	489.9
		Ver	1	453.07	564.77	453.57	563.87	201.07	641.97
			2	350.3	515.2	342.7	517.37	133.93	585.77
			3	199.77	392.13	195.83	391.07	62.1	491.23
	12	Train	1	455.93	566.53	448.43	562.67	215.43	635.57
			2	351.2	512.23	346.6	505.63	135.47	571.27
			3	207.13	397.87	208.7	394.67	63.07	485.43
		Ver	1	455.07	561.9	449.5	563.03	211.17	633.17
			2	349.17	516.87	346.53	511.17	129.03	573.13
			3	198.93	391.4	195.17	383.4	59.73	487.97
51	1	Train	1	439.57	554.1	449.17	568.83	205.23	634.97
			2	338.63	505.63	344.67	517.1	136.33	572.47
			3	197.9	384.47	205.97	405.93	66.57	480.87
		Ver	1	439.1	555.03	449.93	568.73	194.63	631.5
			2	330.57	503.63	341.53	523.93	134.93	576.2
			3	186.47	376.1	194.83	396.33	59.33	476.13
		2	1	453.2	573.1	455.07	562.3	213.9	630.67
			2	348.3	517.97	346.9	507.33	127.77	567.7
			3	209.77	407.17	209.47	391.67	58.73	484
		Ver	1	453.23	572.4	457.33	561.27	202.87	629.33
			2	347.73	526.7	345.5	510.13	122.6	568.77
			3	198.63	399.33	198.67	380.83	58.1	485.57
		7	1	457.3	565.07	449.57	565.7	210.63	625.77
			2	353.83	511.83	347.87	511.47	122.67	561.07
			3	212.93	399.13	206.9	392.97	57.43	474.87
		Ver	1	459.4	564.6	452.63	563.63	199.13	623.9
			2	358.7	522.57	342.17	518.9	117.37	566.2
			3	205.17	393.13	197.97	388.13	56.6	477.8
	12	Train	1	454.03	560.43	452.03	565.9	213	618.33
			2	349.87	508.3	351.07	513.23	133.27	550.1
			3	212.67	389	210.93	398.83	62.13	458.17
		Ver	1	455.73	558.63	458.2	565.2	203.97	620
			2	345.03	509.53	347.63	518.37	130.13	554.2
			3	201.8	383.53	199.03	389.37	59.43	459.6
101	1	Train	1	444.9	557.03	447.5	570.4	201.37	637
			2	344.97	502.9	346.73	521.53	129.4	575.2
			3	203.43	384.37	209.13	408.9	58.33	487.23
		Ver	1	444.43	556.6	453.7	572.27	195.87	634.97
			2	343.57	509.13	345.73	525.07	128.57	582.3
			3	193.77	377.73	199.17	397.6	59.43	487.33
		2	1	447.67	560.47	451	562.8	210.5	622.73
			2	347.47	508.3	352.53	515	132.33	552.5
			3	205.47	388.77	213.23	399.33	61.77	456.27
		Ver	1	450.57	558.83	458.97	567.33	200.07	616.37
			2	346.6	513.83	350.9	516.07	129.6	558.13
			3	193.2	379.67	200.07	390.7	56.67	458
		7	1	460.07	562.57	453.13	559.4	204.53	626.9
			2	355.33	509	350.57	509.27	124.73	562.17
			3	216.57	393.73	214.83	398.6	58.73	469.43
		Ver	1	463.93	563.07	462.4	563.8	201.93	624.33
			2	353.47	513.3	348.77	514.87	123.33	568.1
			3	207.63	385.83	201.73	387.7	54.8	473.13
	12	Train	1	464	558.9	454.93	554.8	202.9	619.17
			2	358.73	503.8	354.4	502.13	131.13	556.7
			3	215.87	385.7	213.27	382.13	63.13	466.97
		Ver	1	465.2	558.53	462.03	555.13	201.13	621
			2	352.43	505.43	348.87	505.27	128.1	564.8
			3	203.3	373.17	202.87	371.37	59.3	466.97

Table A.344: 6 States – (12, 60, 7)₄ one – Perfect Score is 720 and fuzzy tolerance of

Pop	Parameters			30% Mutation		4 Restarts		Trans 30 Restarts	
	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	592.13	632.57	572.93	627.6	345.73	554.2
			2	496.07	582.13	467.23	570.63	213.1	448.1
			3	328.1	474.47	293.83	456.27	99.67	326.4
		Ver	1	585.87	630.83	563.1	624.43	335.77	556.17
			2	485.57	575.93	460	564.17	206.97	448
			3	300.27	470.2	269.67	447.57	95.37	333.73
	2	Train	1	584.73	626.27	581.73	630.3	350.67	552.67
			2	484.57	574.47	482.53	582.83	214.43	438.83
			3	317.23	469	314.67	476.3	98.87	315.8
		Ver	1	576.93	624.47	578.03	631.87	335.67	549.37
			2	477.2	569.2	475.23	576.13	208.27	441.47
			3	284.6	456.57	283.27	467.9	97.57	321.7
	7	Train	1	576.37	624.93	558.17	614.27	348.93	562.07
			2	478.27	570.17	459.73	554.97	209.6	453.03
			3	312.13	463.07	284.77	439.8	99.93	332.43
		Ver	1	569.57	623.5	551.27	612	338.87	563.1
			2	469.57	569.23	453.33	550.63	210.7	454.93
			3	279.4	450.97	265.03	430.13	91.17	328.87
	12	Train	1	573.8	619.6	562.9	622.43	337.53	552.47
			2	483.23	565.87	455.97	562.07	207.3	450.13
			3	311.57	456.97	281.93	446.2	97	316.53
		Ver	1	567.67	618.23	553.1	619.67	324.37	545.07
			2	469.3	561.13	453.47	560.27	198.03	442.67
			3	282.03	446.93	260.2	439.37	91.07	319.8
25	1	Train	1	587.13	624.8	566.13	623.5	329.33	536.07
			2	487.6	572.43	462.73	565.67	195.47	419.1
			3	327.2	467.43	292.73	457.27	92.07	300.47
		Ver	1	578.53	620.33	558.63	620.17	322.7	533.3
			2	478.53	564.67	455.57	561.8	191.63	418.67
			3	290.53	454.63	267.27	451	89.47	304.87
	2	Train	1	593.43	633.6	581.7	636.13	342.7	560.1
			2	495.5	581.47	477.37	581.4	205.63	448.63
			3	325.23	479.33	305.77	477.33	96.07	320.77
		Ver	1	585.9	631.43	571.33	634.5	332.63	552.53
			2	489.37	577.1	467.73	577.7	200.53	443.53
			3	301.03	470.37	277.73	469.2	90.73	324.9
	7	Train	1	589	628.93	569.53	625	339.63	563.37
			2	491.57	577.9	465.5	566.1	194.3	451.73
			3	323.73	474.77	292.93	457.67	92.77	333.3
		Ver	1	581.93	626.7	560.63	623.17	323.33	559.97
			2	485.4	571.9	459.77	564.97	199.43	455.2
			3	293.7	463.57	271.67	452.4	89.1	337.67
	12	Train	1	582.17	624.93	563.53	620.07	344.63	551.07
			2	483.97	571.6	458.93	562.3	211.03	442.2
			3	317.23	465	297.9	459.63	95.27	313.27
		Ver	1	571.8	621.77	558.27	621.2	334.47	547.03
			2	471.63	563.87	458.2	562.2	204.63	440.17
			3	287.63	449.03	273.1	449.23	93.4	319.3
51	1	Train	1	577.7	618	581.9	630.47	330.23	545.67
			2	482.4	565.7	483.77	583.17	198.3	437.27
			3	316.9	456.2	312.63	478.13	90.4	308.2
		Ver	1	571.9	619.37	581.73	635.63	317.93	544.27
			2	474.07	561.57	480.07	580.77	197.63	434.13
			3	290.43	447.73	285.1	469.57	87.63	311.2
	2	Train	1	593.27	630.9	585.63	631.6	330.03	540.8
			2	490.4	576.5	480.83	580.57	199.73	431.37
			3	321.07	474.9	312.9	482.53	89.1	308.9
		Ver	1	581.73	626.77	580.17	631.7	316.77	538.43
			2	481.87	574.03	478.6	578.27	194.77	431.3
			3	294.83	465.47	283.93	474.03	90.4	308.97
	7	Train	1	588.97	625.6	586.73	639.1	324.73	542.8
			2	490.27	572.2	476.03	586.2	193.97	426.9
			3	329.07	471.4	302.8	484.03	87.03	303.4
		Ver	1	581.93	625.67	580.33	639.37	312.43	540.87
			2	484.53	568	471.3	583.73	189.8	424.97
			3	296.73	460.57	275.2	476.77	85.6	306
	12	Train	1	578.77	618.33	574.53	626.6	319.33	546.77
			2	487.7	568.17	465.13	571.13	181.83	427.17
			3	317.57	457.1	298.73	464.57	85.6	311.03
		Ver	1	573.83	617.9	566.27	625.27	309.53	542.03
			2	476.23	560.93	460.77	566.1	178.53	426.77
			3	293.73	447.63	271.83	456.4	85.8	314.47
101	1	Train	1	587.43	625.23	577.83	624.07	317.33	539.1
			2	486.37	572.17	482.6	570.77	189.1	427.43
			3	322.87	470.47	315.83	468.53	88.33	309.87
		Ver	1	578.2	620.13	574.9	622.9	315.3	538.2
			2	481.83	567.53	478.23	567.03	186.93	429.17
			3	295.1	460.47	287.7	459.5	83.57	307.07
	2	Train	1	589.27	629.93	589.27	629.67	315.97	524.4
			2	487.83	579.87	487.7	580	184.6	410.53
			3	318.8	477.2	325.67	487.23	83.6	289.77
		Ver	1	587.3	631.87	584.77	630.43	301.97	520.67
			2	479.17	576.03	483.83	577.47	180.2	406.13
			3	294.03	472.5	295.03	473.3	84.8	295.67
	7	Train	1	587.17	624.83	578.53	629.67	315.5	528
			2	486.43	575.27	477.17	578.27	181.93	413.7
			3	317.5	469.93	307	478.37	86.87	293.9
		Ver	1	576.53	624.63	573.27	626.43	309.17	526.87
			2	478.9	567.63	471.03	573.43	180.97	409.87
			3	290.2	460.77	278.4	465.33	83.03	295.8
	12	Train	1	578.67	620.7	574.4	625.43	317.4	530.93
			2	486.33	568.87	468.37	572.3	190.63	420.47
			3	316.17	461.63	297.07	466.7	88.83	299.03
		Ver	1	573.37	618.57	567.83	624.67	311.53	528.1
			2	474.63	560.67	467.9	569.53	189.33	419.37
			3	288.13	447.57	272.2	461.93	88.53	308.67

Table A.345: 12 States – (12, 60, 7)₄ one – Perfect Score is 720 and fuzzy tolerance of

A.5.3 Code 3

11	Parameters		30% Mutation		4 Restarts		Trans 30 Restarts		
	1	Train	1	2	1	2	1	2	
	1	Ver	2	613.03	644.17	567.03	616.47	361.8	480.5
			3	511.6	573.7	455.67	536.83	215.63	341.17
			3	345.7	443.87	288.17	399	103.9	215.4
		Ver	1	597.73	638.07	549.93	609.77	347.67	476.97
			2	495.1	564.6	446.23	529.17	203.4	334.57
			3	307.63	428.37	260.77	389.3	96.63	216.17
	2	Train	1	603.7	636.93	571.77	619.13	370.77	495.57
			2	499.8	564.87	469.33	546.67	217.6	359.4
			3	338.7	441.63	297.73	411.3	103.97	223.73
		Ver	1	587.67	631.27	562.57	615.2	354.47	490.3
			2	483.57	556.97	455.3	539.23	201.43	347.37
			3	295.03	425.63	266.47	396.97	99.03	228.93
	7	Train	1	602.13	640.13	559.67	614.7	368.27	496.83
			2	501.37	572.23	449.97	538.77	214.73	356.17
			3	333.67	437.97	281.9	402.6	107.17	229.6
		Ver	1	588.67	633.43	547.57	610.37	357.77	493.57
			2	482.87	561.3	438.37	531.3	205.73	350.6
			3	288.27	417.5	253.73	393.17	99.83	228.93
	12	Train	1	598.2	629.93	553.77	604.8	362.63	493.07
			2	497.1	562.17	446.5	525.37	212.47	355.47
			3	335.7	439.67	280.8	388.37	103.57	230.8
		Ver	1	585.63	627	539.93	598.17	346.83	487.77
			2	483.97	556.9	433.13	517.33	206.57	349.6
			3	296.07	424.27	250.43	378.3	98.87	231.37
25	1	Train	1	600.23	628.97	571.17	620	367.87	491.67
			2	504.07	561.87	463.77	545.33	222.43	357.57
			3	341.83	432.6	299.97	414.33	103.57	224.97
		Ver	1	587.47	624.27	556.9	614.37	350.2	482.1
			2	487.1	554.67	452	539.43	208.7	350.1
			3	303.23	417.57	269.73	404.9	98.73	226.8
	2	Train	1	609.2	638.5	573.53	620.43	372.17	497.43
			2	513.7	575.9	470.6	554	217.87	360.03
			3	347.83	451.57	303.53	423.57	103.5	231.1
		Ver	1	598.27	635.23	561.1	616.43	358.07	492.47
			2	497.97	567.77	457.63	546.07	206.53	351.3
			3	308.43	437.53	268.87	415.2	98.67	231.17
	7	Train	1	598.9	638.2	578.2	622.03	365.9	488.07
			2	498.53	574.67	472.7	552.67	218	352.53
			3	329.77	451.47	306.47	430.97	103.93	222.13
		Ver	1	588.83	634.43	568.87	619.33	351.63	482.13
			2	481.9	569.9	463.6	551.1	209.2	347.67
			3	295.43	438.1	281.17	423.4	102.27	224.83
	12	Train	1	595.77	633.37	560.07	610.47	365.63	496.9
			2	494.93	565.13	459.43	543.47	211.7	354.77
			3	329.5	440.07	293.37	416.7	102.43	227.63
		Ver	1	585.93	629.67	556.5	612.1	353.47	493.23
			2	477.57	556.1	451.83	541.1	202.57	349.3
			3	293.23	422.67	268.73	409.57	95	229.53
51	1	Train	1	596.8	627.1	592.47	639	351.43	470.63
			2	499.47	560.97	483.17	574.03	204.9	331.7
			3	336.27	434.9	315	453.23	97.33	206.6
		Ver	1	583.83	622.73	580.7	633.33	345.7	471.6
			2	484.6	553.07	472.1	566.2	194.4	323.6
			3	296.5	418.7	283.07	439.93	93.57	204
	2	Train	1	603.33	639.53	581.3	625	354.87	471.2
			2	506.73	574.07	478.93	564.2	213.93	337.53
			3	335.73	446.83	309.13	439.93	102.57	210.7
		Ver	1	591.53	635.03	570.47	622.77	344.87	470.3
			2	489.93	564.3	465.73	556.77	206.23	332.83
			3	301.33	432.13	277.37	428.63	96.63	209.07
	7	Train	1	600.93	636.5	585.27	632.9	350.33	483.07
			2	498.97	571.37	480.03	568.87	198.13	338.8
			3	333.87	450.83	309.73	456.27	91.83	215.07
		Ver	1	588.53	631.5	574.83	629.27	341.6	481.83
			2	485.87	564.73	465.43	563.07	191.97	335.57
			3	297.4	437.27	279.97	443.33	90.6	218.3
	12	Train	1	596.47	627.03	574.13	620.13	347.5	473.47
			2	502.1	564.13	469.63	561.1	198.63	333.2
			3	335.7	442.13	303.6	439.93	95.5	209.3
		Ver	1	587.07	624.3	565.97	619.47	338.97	472.73
			2	485.5	556.83	464.9	556.97	193.07	325.77
			3	298.47	427.73	271.03	431.7	93.63	207.47
101	1	Train	1	594.6	628.93	592.07	630.8	336.07	458.73
			2	492.57	559.6	494.63	575.5	191.9	320.83
			3	328.6	433.2	330.1	458.23	89.53	195.27
		Ver	1	578.5	620.63	585.73	628.57	329.73	455.97
			2	477.33	551.23	479.83	566.6	186.07	314.67
			3	294.37	420.03	291.27	442.67	91.47	202.07
	2	Train	1	606.13	638.13	598.23	636.37	334.43	467.5
			2	502.97	573.9	500.07	584.17	188.23	326.77
			3	333.8	454.43	334.4	472.5	90.77	209.67
		Ver	1	590.17	632.2	593.63	635.73	328.6	468.27
			2	485.77	564.17	486.33	577.17	183.47	324.57
			3	303.37	444.17	296.83	462.13	87.13	210.83
	7	Train	1	590.73	625.23	586.13	629.57	339.43	472.3
			2	497.4	563.87	486.9	573.9	183.23	329.9
			3	332.43	448.87	317.97	462.93	87.23	209.73
		Ver	1	583.27	623.17	579.73	626.93	332.37	472.47
			2	480.77	559.3	478.67	571.27	176.4	325.6
			3	295.97	436.03	289.23	455.47	88.77	213.93
	12	Train	1	588.27	623.97	572.4	616.63	340.1	465.27
			2	491.43	558.37	466.83	552.53	190.93	324.87
			3	321.73	437.73	302.8	440.97	89.17	199.9
		Ver	1	575.07	618.63	563.33	614.07	331.57	462.57
			2	476.07	552.03	464.27	553	184.2	319.93
			3	288.33	428.9	278.97	432.3	91.97	205.33

Table A.346: 18 States – $(12, 60, 7)_4$ one – Perfect Score is 720 and fuzzy tolerance of

Parameters			1 Restart		15 Restarts		trans 30 Restarts		
Pop	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	8.4	641.23	12.27	651.53	13.43	647.4
			2	7.43	618.57	10.8	628.37	11.13	621.07
			3	4.7	554.27	5.93	560.77	7.17	549.67
		Ver	1	8.67	645.23	12.07	654.6	13.3	649.93
			2	7.07	617.57	10.67	627.23	11.3	621.63
			3	4.77	548.67	6.67	560.3	7.5	550.4
	2	Train	1	9.63	639.73	13.4	652.17	12.4	657.33
			2	7.47	613.27	11.33	621.43	10.37	631.67
			3	4.57	554.8	6.23	556.87	5.6	570.77
		Ver	1	9.57	639.37	13.9	652.9	12.13	657.97
			2	7.87	611.8	12.1	624.33	10.9	634.03
			3	4.73	550.43	7.1	556.07	6.93	569.8
	7	Train	1	10.23	659.43	14.6	637.63	14.77	628.67
			2	8.43	628.07	10.97	603.2	11.37	598.17
			3	4.63	566.3	6.6	537.93	7.57	523.7
		Ver	1	11.27	659.8	13.9	636.57	14.1	630.33
			2	9.93	628.7	12.43	608.43	11.43	601.53
			3	5	569	7.6	534.2	8.57	521.9
	12	Train	1	10.5	642.4	15.33	652.2	11.77	669.9
			2	7.97	617.67	12.9	618.5	9.8	646.03
			3	4.77	558.93	6.43	551.93	5.5	587.77
		Ver	1	10.87	641.73	16.8	652.27	12.33	671.6
			2	7.77	616.57	13.93	620.73	9.93	644.77
			3	5.33	556.43	7.4	556.63	6.3	591.77
25	1	Train	1	9.3	640.7	14.8	638.17	13.1	657.53
			2	7.97	614.13	11.97	609.8	11.2	630.8
			3	4.47	554.03	6.77	540	6.33	565.07
		Ver	1	10.33	640.93	15	640.23	13.93	659.47
			2	7.57	617.5	11.7	609.83	11.37	628.2
			3	5.3	553.3	8.6	541.43	6.73	566.4
	2	Train	1	9.23	648.53	11.53	677.07	12.33	670.6
			2	7.83	615.33	8.53	655.33	8.5	645.77
			3	4.5	559.2	5.37	604.63	5.83	590.27
		Ver	1	9.6	643.9	11.5	677	11.4	669.67
			2	7.57	617.5	9.3	655.3	9.77	649.57
			3	4.57	560.93	6.4	605.87	6.5	593
	7	Train	1	11.7	640.5	13.57	637.8	13.3	649.63
			2	10.37	617.57	11.1	610.27	11.03	617.87
			3	5.97	555.53	6.6	541.5	5.67	550.57
		Ver	1	12.93	643.57	13.93	640.93	13.8	650.63
			2	10.67	615.67	10.57	610.37	11.6	619.73
			3	6.83	549.57	7.43	542.67	6.4	555.37
	12	Train	1	13.3	659.33	12.93	662.73	12.23	663.37
			2	11.23	631.7	11.1	635.53	9.67	638.93
			3	6.57	558.47	6.3	575.93	5.87	584.83
		Ver	1	14.1	660.03	13.7	664.07	12.13	663.9
			2	11.33	631.47	12.33	635.83	10.47	640.43
			3	7.53	562.07	6.83	574.07	6.37	581.87
51	1	Train	1	9.2	660.53	13.83	667.43	12.1	658.4
			2	7.9	633.47	11.17	634.1	10.4	634.13
			3	5	579	6	575.53	5.37	572.47
		Ver	1	10.33	659.47	14.77	666.33	12.8	661.43
			2	7.7	634.67	12.87	637.07	10.53	633.93
			3	4.93	578.3	6.83	577.53	6.27	576.27
	2	Train	1	11.2	659.57	13.43	659.83	15.2	637.13
			2	9.97	638.33	11	635.03	11.07	600.7
			3	5.93	579.7	5.97	571.7	5.97	535.4
		Ver	1	12.5	660.73	13.57	661.7	15.2	636.5
			2	10.17	638.97	11.4	634.17	12.27	603.3
			3	6.7	581.93	7.27	574.03	7.07	533.7
	7	Train	1	12.77	653.93	12.37	654.17	12.97	657.7
			2	10.8	625.37	11.77	628.1	10.1	632.3
			3	5.83	563.63	6.37	559.17	5.7	572.17
		Ver	1	14.07	654.53	13.03	656.73	12.9	658.5
			2	11.63	623.03	11.7	627.6	10.37	634.9
			3	6.5	563.1	7.23	558.1	6.73	574.07
	12	Train	1	12.63	663.63	13.13	647.93	14.63	647.47
			2	11.47	631.57	11.07	617.43	11.93	618.37
			3	6.4	562.97	6.77	553.8	6.83	551.07
		Ver	1	14.57	665.13	13.73	649.27	15.13	648.5
			2	12.53	630.03	12.07	617	12.5	619.73
			3	7.57	563.37	7.13	547.87	7.8	550.23

Table A.347: 2 States – $(12, 60, 7)_4$ two – Perfect Score is 720 and fuzzy tolerance of 2

Parameters				1 Restart		15 Restarts		trans 30 Restarts	
Pop	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	47.87	579.5	78.1	583.27	68.87	612.47
			2	32.17	523.2	53.87	526.93	52.03	560.1
			3	17	427.77	28.93	427.93	27.57	454.63
		Ver	1	47.87	581.83	80.07	587.83	67.17	615.5
			2	30.3	523.67	53.63	529.93	49.7	561.37
			3	14.77	427.6	29.57	427.13	26.03	452.9
	2	Train	1	44.8	592	68.23	621.87	59.2	633.53
			2	32.3	527.87	49.8	567.43	41.13	581.6
			3	18.17	428.27	27.07	466.73	22.87	494.77
		Ver	1	45.07	589.9	68.23	623.67	56.23	631.63
			2	33.13	532.27	51.47	567.8	41.43	584.83
			3	16.43	425.93	24.63	461.1	21.3	491.17
	7	Train	1	58.03	581.83	65.77	632.17	66.87	617.73
			2	36.8	519.8	55.73	569.27	53.2	551.53
			3	21.67	420.73	29.27	469.43	30.1	446.8
		Ver	1	56.9	582.47	65.33	632.83	65.5	614.87
			2	38.73	519.3	54.57	573.93	52.43	557.5
			3	18.97	420.03	26.23	461.07	26	444.07
	12	Train	1	62.07	573.53	61.07	632.5	59.23	632.5
			2	42.4	511.8	48.67	580.43	45.17	593.73
			3	23.2	413.47	26.33	485.3	22.9	502.8
		Ver	1	61.77	574.9	59.5	633.7	59.53	636.63
			2	41.2	518.43	46.67	580	42.17	597.33
			3	22.03	415.93	24.8	479.27	22.27	501.33
25	1	Train	1	64.2	561.97	76.3	599.7	73.63	604.97
			2	39.9	501.1	56.23	545.43	61.33	546.83
			3	22.63	408.1	29.9	440.87	32.3	438.27
		Ver	1	63.7	563.2	74.53	603.43	72.77	608.47
			2	41.83	505.23	55.2	551.27	57.83	548.67
			3	21.97	403.07	26.4	438.03	29.97	426.93
	2	Train	1	54.57	595	69.37	612.97	74.57	600.77
			2	40.27	538.57	53.47	553.27	55.83	544.33
			3	21.27	434.4	27.6	453.97	31.17	440.27
		Ver	1	54.1	594.8	69.43	613.7	74.9	604.53
			2	40.8	535.47	50.8	556.3	52.17	546.9
			3	19.33	430.97	25.27	449.13	28.27	433.17
	7	Train	1	55.7	617.07	67.47	635.87	71.97	590.8
			2	39.83	561.43	52.53	580.63	51.87	538.77
			3	21.9	468.97	29.4	477.3	28.87	445.43
		Ver	1	54.4	615.23	66.5	637.47	69.3	593.7
			2	41.43	564.5	51.4	586	49.77	541.53
			3	21.37	464.23	25.67	473.73	24.23	440.67
	12	Train	1	58.37	616.6	71.67	612.83	64	632.23
			2	40.63	558.07	54.87	559.8	52.57	579.37
			3	24	466.73	31.2	461.77	28.4	484.47
		Ver	1	59.23	618.07	70	614.33	63.4	632.03
			2	41.5	562.23	53.63	565.13	51.07	580.93
			3	21.2	466.1	28.23	455.53	25.2	477.6
51	1	Train	1	65.43	581.4	67.9	617.47	82.5	594.27
			2	40.43	516.3	46.97	564.53	61.63	530.73
			3	24.23	420.8	25.33	476.07	33.2	420.83
		Ver	1	67.33	581.77	68.17	621.7	81.2	596.57
			2	42.57	521.27	46.57	567.37	59.9	536.07
			3	21.43	423.07	23.37	474.43	29.9	414
	2	Train	1	55.2	610.37	74.9	616.93	75.47	609.77
			2	39.97	564.87	58.1	562.43	54.37	556.5
			3	21.97	475.6	31.7	462.43	29.17	452.63
		Ver	1	56	610.13	74.4	616.53	74.53	614.27
			2	39.9	566	57.17	566.5	50.17	558.47
			3	21.4	475.73	28.03	457.73	28.3	456.37
	7	Train	1	63.07	596.6	69.63	624.53	75.3	604.9
			2	43.33	543.03	54.7	571.6	59.37	548.7
			3	25.17	444.8	29.13	470.9	31.4	437.03
		Ver	1	59.87	599.93	68.57	624.8	71.7	604.23
			2	46.07	543.7	51.53	576.23	56.57	551.93
			3	22.83	441.97	28.27	469.37	28.77	437.37
	12	Train	1	72.03	586.33	79.7	603.8	74.27	618.33
			2	50.97	530.9	60.93	541.93	53.73	565.33
			3	28.73	428.2	31	435.5	31.2	461.63
		Ver	1	72.37	591.27	77.27	604.47	71.6	617.37
			2	49.9	533.1	59.47	546.1	54.13	564.17
			3	26.63	428.23	29.87	434.4	26.83	457.7

Table A.348: 3 States – $(12, 60, 7)_4$ two – Perfect Score is 720 and fuzzy tolerance of 2

Parameters				1 Restart		15 Restarts		trans 30 Restarts	
Pop	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	117.4	477.63	147.93	543.73	152.07	529.53
			2	67.83	388.37	92.7	451	102.93	446.4
			3	33.7	273.1	46.3	322.23	49.4	310.67
		Ver	1	116.87	474.3	142.67	542.73	148.87	533.67
			2	66.73	389.33	92.57	455.57	101.13	449.37
			3	34	272.33	42.53	320.43	47.1	303.8
	2	Train	1	109.4	485.17	139.27	552.9	142.43	535.67
			2	64.47	406.13	94.93	468.83	102.53	452.63
			3	30.23	290.77	48.8	339	47.47	313.07
		Ver	1	110	491.6	135.67	559.87	138.53	539.17
			2	64.77	405.03	91.4	469.97	99.17	452.83
			3	31.4	297.4	44.63	330.87	46.4	313.77
	7	Train	1	120.93	485.5	131.17	563.2	148.8	543.97
			2	71.23	403.2	94.2	471.4	95.23	451.6
			3	35.33	290.53	47.07	342.13	46.67	312.93
		Ver	1	120.7	487.9	128.9	564.83	145.43	544.33
			2	67.37	409.03	93.2	471.03	93.43	454.7
			3	34.17	288.87	42.2	335.37	45.2	317
	12	Train	1	106.2	508.73	130.97	560.83	143.87	548.57
			2	62.13	415.73	96.97	471.4	102.27	462.23
			3	30.83	309.17	47.3	331.2	51	320.43
		Ver	1	105	516.27	129	563	141.47	552.53
			2	62.57	423.33	95.53	474.57	101.67	469.77
			3	29.03	307.47	42.8	329.87	47.43	320.47
25	1	Train	1	116.9	517.43	150.63	547.2	147.5	541.2
			2	74.33	437	99.47	464.37	100.73	454.1
			3	37.17	311.97	50.3	331.07	51.6	316.13
		Ver	1	115.7	521.9	147.73	553.33	143.13	543.93
			2	75.33	432.77	97.13	463.67	99.8	453.8
			3	35.53	311.8	46.3	330.43	46.33	313.67
	2	Train	1	116.87	531.7	136	553.5	130.17	558.4
			2	71.53	436.63	90.17	466.97	98.87	469.07
			3	34.7	329.27	44.13	338.73	48.6	330.7
		Ver	1	113.33	531.97	132.33	553.4	125.93	562.27
			2	71	441.07	86.43	468.43	96.13	469.1
			3	33.3	324.4	40.5	335.03	43.73	323.77
	7	Train	1	103.57	555.17	136.47	550.8	138.8	544.63
			2	68.63	463.07	96.87	462.57	91.13	461.27
			3	34.27	337.43	48.6	330.27	44.97	334.83
		Ver	1	101.77	555.07	134.7	558.8	135.87	546.83
			2	68.27	464.6	94.37	467.13	86.33	462.37
			3	32.37	335.23	43.4	330.07	40.83	330.93
	12	Train	1	120.73	525.43	151.63	532.43	144.8	536.93
			2	71.3	442.07	104.47	444.87	101.73	452
			3	36.07	318.8	48.97	313.57	50.37	319.63
		Ver	1	120.2	529.47	148.87	534	139.9	537.93
			2	72.23	440.97	97.37	444.97	96.03	452
			3	35.53	319.07	45.93	312.23	47.77	317.6
51	1	Train	1	112.1	506.4	149.8	563.47	139	558.5
			2	62.9	426.43	105	472.97	98.93	471.7
			3	34.5	317.23	51.57	346.8	48.8	344.27
		Ver	1	109.67	511.33	148.47	564.2	135.13	559.6
			2	63.3	425.17	101	473.17	95.5	474.6
			3	32.3	315.07	48	340.43	45.07	337.37
	2	Train	1	118.37	513.53	143.1	549.63	145.67	555.97
			2	74.83	419.33	100.33	467.3	102.53	469.37
			3	36.2	294.3	48.07	328.4	52.8	331.17
		Ver	1	119.43	514.3	138.13	551.7	143.47	556.6
			2	75.73	421.27	95.37	469.13	98.7	470.33
			3	34.07	296.4	46.77	333	47.83	326.63
	7	Train	1	119.13	522.83	148.73	541.07	154.6	550.3
			2	74.73	437.37	102.73	459.37	106.4	450.73
			3	38.47	317.53	51.43	325.33	52.4	321.33
		Ver	1	117.87	522.27	143.9	543.97	151.47	554.3
			2	75.13	436.07	102.13	458.73	101.57	452.77
			3	37.53	313.57	48.8	321.03	46.4	315.63
	12	Train	1	121.87	541.4	138.83	563.6	135.33	573.67
			2	80.13	453.53	88.4	471.77	95.33	497
			3	38.07	327.73	46	358.8	47.3	357.53
		Ver	1	119	540.7	132.43	565.7	129.7	570.97
			2	78.73	457.87	84.13	475.17	89.33	498.37
			3	36.97	326.27	39.8	352.2	43.77	356.83

Table A.349: 4 States – $(12, 60, 7)_4$ two – Perfect Score is 720 and fuzzy tolerance of

Parameters				Trans 30 Restarts	
Pop	Muts	Type	Dist	Exact	Fuzzy
		Train	1	152.07	650.7
			2	102.93	609.6
			3	49.4	535.53
		Ver	1	148.87	649.93
			2	101.13	610.47
			3	47.1	526.47
		Train	1	142.2	656.43
			2	100.77	615.5
			3	47.1	539.47
		Ver	1	138.3	656.6
			2	97.87	613.8
			3	46.8	537.03
		Train	1	142.1	654.2
			2	95.9	613.43
			3	46.23	537.7
		Ver	1	142.57	655.4
			2	91.17	613.23
			3	45.1	540.1
		Train	1	143.87	658.63
			2	102.27	621.97
			3	51	551.53
		Ver	1	141.47	660.13
			2	101.67	621.33
			3	47.43	547.93
		Train	1	138.67	657
			2	98.07	620.43
			3	49.73	547.77
		Ver	1	134.9	656.9
			2	96.3	619.3
			3	43.97	541.13
		Train	1	145.03	663.83
			2	108.2	630.63
			3	53.47	559.1
		Ver	1	140.67	663.83
			2	107.37	632.43
			3	48.33	556.5
		Train	1	138.8	659.7
			2	91.13	621
			3	44.97	552.6
		Ver	1	135.87	658.07
			2	86.33	619.33
			3	40.83	545.8
		Train	1	136.8	666.4
			2	100.5	629.6
			3	49.3	561.13
		Ver	1	132.17	663.77
			2	98.27	630.33
			3	46.93	556.27
		Train	1	137	668.37
			2	98.27	634.43
			3	48.53	569.1
		Ver	1	133.73	668.77
			2	95.7	632.73
			3	44.83	563.23
		Train	1	145.67	660.6
			2	102.53	626.5
			3	52.8	552.27
		Ver	1	143.47	658.97
			2	98.7	624.43
			3	47.83	554.1
		Train	1	150.3	657.67
			2	105.83	617.87
			3	51.4	543.23
		Ver	1	146.27	657.7
			2	103.37	616.27
			3	49.47	542.77
		Train	1	139.17	666.63
			2	99.6	636.37
			3	48.43	566.37
		Ver	1	134.67	663.97
			2	94.2	635.07
			3	45.93	566.03
		Train	1	144.13	662.5
			2	101.63	622.87
			3	51.57	555.83
		Ver	1	141.53	660.37
			2	100.6	624.1
			3	45.03	550.47
		Train	1	139.37	669.47
			2	96.43	633.23
			3	47.37	562.6
		Ver	1	133.43	668.4
			2	96.93	632.53
			3	45.27	560.83
		Train	1	122	674.73
			2	88.23	644.2
			3	45.6	583.67
		Ver	1	119.57	672.83
			2	87.07	643.77
			3	40.77	580.23
		Train	1	136.27	662.53
			2	94.27	628.33
			3	48.97	563.9
		Ver	1	136	659.53
			2	92.83	629.97
			3	44.83	555.87

Table A.350: 4 States – $(12, 60, 7)_4$ two – Perfect Score is 720 and fuzzy tolerance of

Pop	Parameters			30% Mutation		4 Restarts		Trans 30 Restarts	
	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	431.27	547.53	430.4	547.43	229.8	639.87
			2	334.87	499	330.6	506.53	150.43	577.77
			3	194.37	371.83	190.53	387.23	72.03	482.63
		Ver	1	434.1	550.97	434.17	553.27	220.6	634.23
			2	328.53	493.23	324.73	501.83	149.57	581.27
			3	185.17	366.1	179.97	377.37	68.37	479.07
	2	Train	1	444.93	542.83	435.7	544.9	216	640.97
			2	350.07	500.7	340.4	501.4	140.6	583.17
			3	205.03	375.33	197	372.63	68.8	484.7
		Ver	1	452.03	548.57	439.3	548.5	215.8	641.37
			2	339.07	493	332.9	495.07	139.23	587.13
			3	190	364.87	188.23	368.63	61.53	482.87
	7	Train	1	445	550.77	444.47	557.83	222.73	624.03
			2	347.97	510.77	344.4	513.93	144.17	564.27
			3	203.1	382.77	200.83	389.5	68.2	462.73
		Ver	1	445.9	554.27	442.03	559	216.73	623.6
			2	334.6	501.53	334.17	506.07	142.03	564.87
			3	193.37	379.53	189.37	386.33	64.03	463.4
	12	Train	1	443.13	560.7	436.87	549.17	226.33	649.07
			2	349.6	519.5	341.93	509.33	149.8	592.8
			3	205.4	401.5	197.8	379.6	71.53	497.13
		Ver	1	448.93	564.33	442.47	555.03	221.9	647
			2	336.13	510	328.83	496.2	151.8	593.9
			3	191.03	390.3	186.93	373.8	68.57	496.8
25	1	Train	1	427.37	545.23	440.5	552.2	231.77	626.5
			2	335.77	502.17	338.87	512.37	152.57	566.67
			3	193.93	373.8	200.87	389.2	70.43	467.43
		Ver	1	427.53	548.23	444.73	557.17	231.17	626.3
			2	324.43	498.07	327.73	501.63	143.4	568.97
			3	177.73	364.6	190.57	381.23	66.17	470.2
	2	Train	1	439.6	547.53	434.6	545.6	235.67	620
			2	348.03	509.07	343.7	508.43	159	561.43
			3	203.63	382.93	201	381.57	75.47	461.27
		Ver	1	447.17	555.97	440.67	552.43	234.27	619.7
			2	333.67	501	333.23	501.1	153.5	564.47
			3	186.3	371.83	191.43	375.5	73.33	460.57
	7	Train	1	443.2	551.43	445.9	546.4	225.77	637.07
			2	349.73	513.07	341.97	502.47	153.47	575.9
			3	206.27	384.67	206.17	379.6	73.5	473.9
		Ver	1	447.03	556.63	452.1	552.77	225.3	636.5
			2	338.6	503.23	328.2	494.77	153.2	576.77
			3	192.97	378.37	190.6	369.17	64.87	468.2
	12	Train	1	450.67	556.33	439.87	552.63	226.33	628.17
			2	351.03	508.9	348.9	511.6	149.7	575.43
			3	207.3	390.1	201.37	384.53	71.57	483.07
		Ver	1	453.4	561.5	444	555.43	224.5	631.73
			2	342.63	504.4	337.5	501.9	143.63	575.03
			3	189.5	380.3	190.73	379.27	64.83	481.03
51	1	Train	1	426.1	547.8	447.13	565.37	225.03	629.27
			2	340.27	506.63	346	525.6	141.67	565.53
			3	193.8	376.17	200.53	400.97	67.97	465.23
		Ver	1	432.77	553.17	451.23	570.07	220.23	628.03
			2	329.23	495.17	338.87	516.97	138.47	564.17
			3	181.6	372.57	190.3	397.3	64.87	465.27
	2	Train	1	435.97	558.63	444.17	560.77	227.53	629.93
			2	345.77	518.4	349.7	523.07	143.63	568.9
			3	203.3	398.03	202.1	400.3	70.97	470.53
		Ver	1	439.9	563.6	449.13	564.3	225.1	630
			2	334.7	512.3	337.47	510.57	143.37	569.73
			3	189.33	384.5	188.73	392.33	64.83	468.07
	7	Train	1	451.73	559.57	447.8	552.17	223.63	626.9
			2	352.13	516.13	348.53	509.23	143.9	566.33
			3	209.03	396.7	207	387.07	68.17	464.37
		Ver	1	456.17	563.1	458.63	561.43	217.87	628.8
			2	342.43	507.73	339.17	502.23	140.37	566.43
			3	194.27	386.03	195.03	378.9	64.07	460.43
	12	Train	1	445.43	552.33	447.4	554.3	223.73	620.33
			2	350.17	511.3	349.7	511.23	138.53	559.4
			3	205.07	386.97	206.53	382.47	66.57	463.93
		Ver	1	447.53	555.83	454.47	559.47	217.73	623.57
			2	339.97	504.1	338.73	501.47	135.17	560
			3	192.73	379.43	194.3	378.93	61.97	458.53
101	1	Train	1	429.5	568.83	445.2	565.93	226.57	624.2
			2	338.63	523.83	350.8	524.93	148.33	564.23
			3	195.03	408.5	200.23	403.77	73.93	466.53
		Ver	1	431.53	572.07	448.37	570.43	225.1	624.73
			2	331.3	519.93	337.9	517.57	145.33	564.23
			3	184.67	396.83	194.33	398.5	68.4	461.43
	2	Train	1	450.3	553.47	444.53	561.47	222.27	620.63
			2	347.97	511.17	347.77	517.53	139.77	559.63
			3	205.47	385.13	204	396.97	69.17	459.1
		Ver	1	454.73	558.13	447.87	566.83	217.23	619.43
			2	338.73	502.6	339	512.13	140.63	558.77
			3	193.7	381.1	189.77	392.2	60.97	456.2
	7	Train	1	447.67	552.67	450.13	547	216.77	624.07
			2	355.17	510.6	354.07	508.6	143.1	565.07
			3	214.43	391.97	213.63	384.93	68.47	472.5
		Ver	1	454.1	559.5	459.87	556.6	216.87	625.37
			2	345.3	503.03	337.8	496.8	137.73	569.63
			3	197.4	379.53	196.9	373.27	65.6	469
	12	Train	1	449.23	543.5	451.1	541.93	197.67	643.37
			2	354.4	502.6	350.93	500.53	127.2	586.13
			3	212.63	376.07	208.83	370.27	61.53	489
		Ver	1	460.07	551.23	458.93	550.97	194.97	639.63
			2	340.13	492.37	335.3	488.67	128.17	587
			3	196.67	364.17	194.9	362.93	57.33	487.07

Table A.351: 6 States – (12, 60, 7)₄ two – Perfect Score is 720 and fuzzy tolerance of

Pop	Parameters			30% Mutation		4 Restarts		Trans 30 Restarts	
	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	581.23	635.43	561.1	630.4	351.53	554.7
			2	490.63	585.13	459.7	567.37	221.3	450.47
			3	306.93	464.17	275.77	435.6	106.17	317.57
		Ver	1	572.47	631.47	550.33	624.57	343.77	550.97
			2	469.67	575.37	447.1	564.27	217.67	447.7
			3	281.93	452.9	249.47	422.8	99.63	311.63
	2	Train	1	582.97	630.67	562.33	630.27	359.63	562.8
			2	487.33	578.23	466.47	574.9	229.27	460.83
			3	306.97	457.5	281.73	448.63	110.1	322.33
		Ver	1	575.73	627.7	554.9	625.47	352.77	560.3
			2	470.9	568.13	449.1	568.37	219.5	453.83
			3	281.83	450.37	260.73	438.7	103.63	321.43
	7	Train	1	588.27	636.03	554.23	619.3	356.2	565.83
			2	490.17	585.67	457.37	560.47	226.87	466.37
			3	312.7	471.17	281.57	435.1	110.87	337.63
		Ver	1	583.87	634.43	544.73	615.37	355.27	566.87
			2	476.1	578.27	447.27	556.8	221.6	463.47
			3	288.97	464.37	259.73	425.8	99.3	326.8
	12	Train	1	578.83	631.87	553.93	616.3	351.23	542.77
			2	483.7	579.9	461	563.37	221.87	435.8
			3	308.27	462.3	280.53	430.03	104.17	308.4
		Ver	1	572.77	628.43	548.23	613.73	344.97	541.23
			2	470.07	572.83	446.07	552.53	213.6	435.67
			3	279.47	452.17	258.3	417.87	95.3	298.17
25	1	Train	1	575.07	624.83	568.3	627.8	358.23	555.03
			2	485.73	573.7	471.93	574.83	229.4	451.63
			3	312.53	451.53	291.57	454	107.07	317.67
		Ver	1	570.3	622.27	565.23	628.97	354.53	555.13
			2	473.3	567.9	460.13	569.77	222.03	450.07
			3	282.07	439.17	266.47	443.87	100.13	315.23
	2	Train	1	578.33	632.13	579.87	638.5	365.3	567.33
			2	485.43	580.4	484.6	589.67	228.53	462.67
			3	300.27	456.47	302.17	473.87	107.03	328.9
		Ver	1	570.7	631.43	575.63	636.13	359.7	568.2
			2	462.03	568.2	469.47	583.47	221.93	461.9
			3	275.9	449.13	276.63	464.07	103.2	327.73
	7	Train	1	582.47	629.83	563.4	633.7	352.3	556.87
			2	487.67	582.57	465.33	581.63	223.4	454.03
			3	306.8	466.77	281.8	456.37	110.6	319.57
		Ver	1	576.7	627.8	557.3	632.37	342.6	549.7
			2	469.03	574.3	449.6	573.63	220.13	448.73
			3	284.97	460.67	256.73	448.63	97.97	313.17
	12	Train	1	576.77	626.03	549.9	613	350.57	557.03
			2	484.33	573.43	455.6	558.2	209.7	444.37
			3	306.03	451.1	278.7	434	102.13	316.53
		Ver	1	570.1	622.2	546.17	611.13	346.83	558.37
			2	467.97	566.53	446.33	550.93	207.67	442.23
			3	279.97	436	258.2	427.37	97.57	312.6
51	1	Train	1	571.93	620.3	578.1	632.03	337.4	545.6
			2	479.67	568.1	483.1	581.67	202.13	439.5
			3	299.8	445.67	301.23	463.3	100.93	317.63
		Ver	1	565.03	618.13	571.33	628.47	333.7	543.3
			2	463.07	558.7	471.53	574.83	196.7	434.2
			3	274.17	436.9	285.6	464.37	89.73	311.3
	2	Train	1	574.63	626.8	574.3	642.27	340.83	554.5
			2	486.27	577.5	475.83	591.13	208.13	446.97
			3	302.7	454.17	293.53	474.93	100.17	318.87
		Ver	1	567.63	623.6	572	641.5	336.53	553.27
			2	462.33	563.43	459.3	584.13	205.47	449.07
			3	281.9	448.53	272.67	470	90.77	310.43
	7	Train	1	581.47	630.77	568.33	623.5	334.53	551.17
			2	487.83	578.07	473.67	572.8	209.73	447.83
			3	312.5	462.57	294.5	454.33	98.37	320.13
		Ver	1	576.53	628.43	566.23	622.43	327.33	548.27
			2	471.97	570.37	464.63	567.1	207.73	445.5
			3	284.3	448	271.2	443.33	93.17	315.8
	12	Train	1	578.1	630.43	565	620.7	331.5	534.3
			2	485.5	582.3	468.43	573.43	205.67	423.83
			3	307.77	464.17	291.83	451.8	99.2	302.13
		Ver	1	572.7	630.6	561.67	620.87	328.8	530.27
			2	469.9	574.6	456.47	566.73	204.3	424.63
			3	278.37	455.77	270.73	444	92.63	294.17
101	1	Train	1	572.07	619.43	580.67	633.1	328.2	531.93
			2	483.5	570.63	482.57	586.77	193.23	422.23
			3	310	449.2	300.33	473.67	91.87	298.27
		Ver	1	564.6	614.2	576.93	634.3	319.1	527.53
			2	463.1	559.6	469.6	580.03	192.67	416.07
			3	282	434.57	276.37	464.67	85.73	294.87
	2	Train	1	576.43	625.77	583.57	629.63	322.6	539.67
			2	484.53	574.4	487.3	582.17	192.5	427.97
			3	307.63	459.93	309.5	468.57	91.87	308.13
		Ver	1	567.8	621.9	579.27	628.53	320.67	536.67
			2	469.3	567.5	474.03	575.07	186.27	428.97
			3	284.37	453.5	282.07	461.57	85.9	301.37
	7	Train	1	574.33	627.27	568.77	619.13	320.5	539.73
			2	479.77	575.33	472.07	568.23	201.17	435.93
			3	299.43	457.43	293.43	453.5	90.97	307.43
		Ver	1	565.57	621.63	559.57	613.57	315.43	535.07
			2	462.73	565.43	461.5	563.13	194.17	430.27
			3	270.8	446.1	277.07	446.87	88.23	307.57
	12	Train	1	567.33	613.97	561.43	619.67	318.2	532.07
			2	479.2	561.2	465.93	570.57	192.4	422.63
			3	306.27	438.57	283.57	452.63	93.57	301.4
		Ver	1	558.5	608	557	618.63	319.77	533.87
			2	464.33	552.1	455.6	562.37	186.37	418.47
			3	275.2	424.97	269.6	446.07	85.03	295.07

Table A.352: 12 States – (12, 60, 7)₄ two – Perfect Score is 720 and fuzzy tolerance of

Pop	Parameters			30% Mutation		4 Restarts		Trans 30 Restarts	
	Muts	Type	Dist	Exact	Fuzzy	Exact	Fuzzy	Exact	Fuzzy
11	1	Train	1	607.13	644.53	568.9	619.93	376.23	495.27
			2	511.73	576.13	467.17	544.87	229	361.03
			3	327.33	423.93	290.83	397.7	109.9	226.7
		Ver	1	598.33	640.77	559.27	614.23	368.7	492.93
			2	484.9	564.4	449.67	537.57	218.47	353.8
			3	286.83	405.33	258.6	382.83	100.97	219.3
	2	Train	1	605.6	644.97	563.77	616.87	381.5	493.7
			2	507.73	577.03	464.03	544.47	238.73	365.03
			3	330.97	437.23	285.67	397.13	116.8	228.13
		Ver	1	596.3	641.67	556.07	613.07	378.6	494.9
			2	484.33	566.97	441.43	533.83	224.97	354.3
			3	289.23	416.83	251.13	379.5	104.2	219.6
	7	Train	1	596.97	634.5	554.17	610.27	379.67	497.9
			2	498.1	565.43	451.23	537.83	231.43	364.63
			3	321.67	418.73	267.9	385.27	113.13	228
		Ver	1	585.1	630	541.03	604	376.5	502.07
			2	476.87	552.63	431.47	527.77	224.67	356.17
			3	282.43	400.3	244.4	372.3	102.57	224.03
	12	Train	1	594.7	635.43	539.83	598.83	375.97	489.57
			2	497.83	567.83	442.1	527.13	232	365.03
			3	315.37	422.97	268.3	377.6	116.27	227.8
		Ver	1	585.7	632.27	527.7	591.87	368.37	487
			2	472.23	555.97	417.9	514.5	228.13	354.93
			3	278.4	401.5	236.97	360.27	106.67	222.2
25	1	Train	1	607.23	640.5	572.83	627.67	375.67	487.4
			2	512.43	574.3	467.6	557.23	231	355.37
			3	331.83	431.6	286.47	410.3	113.43	221.77
		Ver	1	592.87	634.3	559.4	622.07	364.5	478.27
			2	485.07	563.37	446.5	546.13	220.7	346.07
			3	291.8	413.73	255.73	396.27	102.8	215.4
	2	Train	1	602.03	640.47	575.63	622	382.63	498.23
			2	508.27	575.5	481.13	559.53	236.03	363.97
			3	327.5	431.3	295.23	416.63	116.7	227.5
		Ver	1	592.53	636.5	562.87	614.4	373.3	494.3
			2	483.83	563.77	453.73	546.43	227.27	361.63
			3	289.5	417.27	271.7	408.3	104.1	220.17
	7	Train	1	591	626.13	564.13	621	377.87	486.17
			2	498.6	557.57	464.07	556.27	233.57	360.03
			3	318.73	407.57	286.6	412.53	113.67	221
		Ver	1	577.5	618.93	553.53	615.87	368.83	480.43
			2	471.23	542.87	444.87	545.1	218.53	344.33
			3	279.27	388.13	258.9	404.4	102.4	211.97
	12	Train	1	582.67	628.23	556.07	610.37	375.97	494.47
			2	497	561.5	458.5	541.27	223.7	360.93
			3	314.1	410.43	281	399.67	110.2	227.7
		Ver	1	572.97	623.43	550.7	606.63	368.93	492.67
			2	468.1	545.83	440.37	531.83	218.13	357.6
			3	274.33	388.6	251.8	388.4	101.97	221.03
51	1	Train	1	601.67	637.57	585.97	636.3	358.83	477.6
			2	508.7	574.77	482.8	576.33	210.53	345.2
			3	331.53	433.83	306.93	447.67	103.17	215.53
		Ver	1	590.17	631.2	573.5	628.53	355.17	475.9
			2	480.37	559.93	462.9	562.67	208.1	342.13
			3	294.17	417.33	277.73	435.8	94.07	208.23
	2	Train	1	597	632.53	584.7	631.23	369.3	490.37
			2	505.67	563.4	487.67	575.07	217.8	352.3
			3	330.23	420.07	308.13	442.3	107.57	223.33
		Ver	1	586.93	625.77	577.27	627.8	369.23	488
			2	477.23	550.8	466.83	561.7	213.57	348.1
			3	290.87	405.03	276.97	427.93	98	216.4
	7	Train	1	592	632.37	579.2	626.33	359.23	484.23
			2	499.2	567.6	478.1	566.67	217.53	353.77
			3	321.2	426.2	302.53	436.1	105.13	224.17
		Ver	1	579.77	626.43	568.5	622.27	357.1	483.63
			2	475.5	556.67	462.47	558.3	211.2	345.37
			3	282.5	407.93	275.5	431.8	97.4	215.53
	12	Train	1	583.77	624.27	567.1	619.03	358.27	484.67
			2	494.6	563.3	469.97	558.83	205.53	347.97
			3	323.17	425.9	290	419.9	104.57	222.5
		Ver	1	572.83	618.87	560.2	613.6	355.43	484.83
			2	470.03	550.57	445.5	547.33	203.83	345.3
			3	284.2	409.77	264.5	408.7	96.77	215.7
101	1	Train	1	589.8	631.6	582.67	633.47	344.33	466.5
			2	496.87	564.73	487	576.87	200.3	332.53
			3	318.73	421.4	309.1	451.7	99.33	207.6
		Ver	1	578.8	626.3	576.5	630.43	346.6	468.13
			2	472.57	554.17	468.07	570.5	191.47	324.97
			3	280.57	404.3	282.93	443.87	93.87	205.67
	2	Train	1	588.23	625.47	589.5	628	339.17	466.4
			2	496.4	565.87	498.27	574.33	200.7	337.5
			3	322.83	426.7	322.3	443.73	95.6	212.03
		Ver	1	577.67	621.17	581.97	623.57	338.13	466.33
			2	467.97	549.77	473.7	560.27	193.37	329.93
			3	285.83	408.67	293.73	433.2	90.73	203.2
	7	Train	1	591.6	628.67	580.47	629.3	346.07	459.67
			2	498.47	567	482.53	577.83	201.37	328.7
			3	323.03	430.53	307.07	448.93	98.43	203.47
		Ver	1	581.43	623.27	573.27	626.33	346.07	465.03
			2	478.77	556.77	466.9	568.47	198.6	324.33
			3	288.57	415.23	280.67	443.4	91.73	199.5
	12	Train	1	583	621.43	574.53	625.57	343.4	465.47
			2	493.5	560.27	475.33	571.47	201.9	334
			3	317.47	428.83	294.6	441.7	98.4	207.4
		Ver	1	576.77	619.3	567.77	622.47	342.73	467.27
			2	471.4	550.8	456.5	559.6	200	329.17
			3	283.73	413.1	268.87	431.97	92.4	202.87

Table A.353: 18 States – (12, 60, 7)₄ two – Perfect Score is 720 and fuzzy tolerance of

A.6 DNA Fragment Assembly

A.6.1 First Set of Results

Results With No Post Optimization

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46858	46591.87	122.46	47044	46838.67	91.13	47154	46948.7	96.6	47100	46978.6	80.81
		2op	47278	47179.8	63.65	47326	47212.03	61.3	47322	47204.93	63.03	47291	47192.77	53.54
	50	rnd	46967	46620.8	135.04	47048	46846.57	103.17	47226	46971.23	107.05	47174	47051.7	81.86
51	20	rnd	47296	47178.4	64.98	47311	47185.7	60.02	47296	47203.07	41.87	47315	47206	52.08
		2op	46899	46646.6	108.31	46997	46839.9	117.03	47093	46919.73	86.99	47194	47018.5	95.61
	50	rnd	47316	47239.8	50	47312	47255.2	31.44	47344	47271.53	34.36	47355	47272.43	35.68
	20	rnd	46915	46677.97	95.34	47174	46907.53	103.16	47130	46990.63	83.94	47281	47059.73	81.41
		2op	47326	47207.03	60.65	47297	47242.97	34.72	47326	47255.7	45.34	47320	47250.87	38.73

Table A.354: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46816	46616.4	109.47	47085	46847.23	101.66	47179	46958.53	89.17	47111	46976.73	94.74
		2op	47280	47165.83	72.9	47319	47181.33	54.72	47315	47224.53	44.09	47292	47182.47	49.91
	50	rnd	46924	46605.73	135.33	46990	46851.63	85.64	47200	46936.1	105.72	47211	47046.67	99.87
51	20	rnd	47271	47143.9	80.38	47312	47187.07	70.47	47316	47195.07	55.72	47344	47209.77	59.25
		2op	46868	46637.83	116.08	47039	46850.37	95	47132	46949.03	114.08	47155	47047.37	63.7
	50	rnd	47298	47226.57	46.05	47315	47251.73	43.3	47374	47268.8	40.37	47315	47263.53	30.35
	20	rnd	46834	46667.47	92.88	46992	46849.17	86.78	47120	46979.37	88.85	47317	47063.5	92.41
		2op	47277	47223	38.35	47322	47240.73	49.56	47333	47254.53	40.69	47336	47258.8	39.55

Table A.355: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46847	46714.37	84.52	47072	46853.3	87.9	47017	46877.8	70.51	47156	47032.2	70.47
		2op	47323	47259.2	25.53	47344	47283.47	22.29	47331	47290.5	17.8	47354	47306.6	18.64
	50	rnd	46907	46740.1	92.63	47138	46925.53	90.61	47168	47008.8	85.41	47280	47100.3	85.96
51	20	rnd	47296	47262.5	22.64	47335	47282.17	25.45	47336	47301.83	17.92	47364	47312.03	27.48
		2op	46908	46792.87	60.68	46992	46870.17	72.3	47009	46913.73	60.05	47113	47002.4	57.72
	50	rnd	47300	47277.97	7.31	47344	47291.13	15.41	47362	47307.4	22.51	47374	47344.8	20.27
	20	rnd	47105	46921.2	82.03	47151	47036.17	54.46	47227	47073.8	68.17	47285	47154.1	67.53
		2op	47358	47286.1	18.79	47352	47312.33	17.47	47380	47339.93	20.76	47406	47369.6	16.87

Table A.356: *acin1*: basicRRGA+IM: 500 – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46987	46799.03	85.45	47130	47007	79.33	47276	47075.3	77.98	47175	47044.5	87.21
		2op	47318	47267.27	20.55	47332	47299.47	18.05	47365	47308.7	20.37	47301	47232.1	32.16
	50	rnd	47021	46886.33	82.8	47240	47095.4	70.24	47262	47174.97	61.49	47211	47086.67	82.55
51	20	rnd	47342	47284.93	24.61	47400	47326.9	29.85	47396	47351.37	26.22	47305	47216.07	31.28
		2op	47115	46987.47	62.66	47235	47128.63	57.22	47282	47167.73	63.17	47172	47039.07	63.89
	50	rnd	47321	47288.63	13.15	47392	47341.9	18.61	47384	47350.77	18.47	47306	47193.83	35.92
	20	rnd	47225	47156.5	39.43	47375	47279.1	41.46	47362	47281.07	39.65	47174	47028.6	67.44
		2op	47374	47321.63	20.88	47413	47380.83	18.81	47411	47359.53	27.42	47235	47152.07	39.07

Table A.357: *acin1*: basicRRGA+IM: 5000 – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	44994	44578.53	162.22	45855	45540.5	170.78	46109	45856.3	139.37	46301	46062.07	136.54
		2op	47276	47274.13	0.51	47294	47276.27	7.39	47302	47283.03	9.32	47364	47312.87	19.39
	50	rnd	44843	44566.87	104.92	45741	45450.67	147.27	46057	45802.67	135.15	46430	46080.27	149.53
51	20	rnd	47283	47274.77	2.19	47300	47276.2	5.64	47300	47280.3	8.05	47363	47308	19.08
		2op	45187	44899.87	149.12	46157	45811	149.71	46399	46047.13	156.25	46517	46285.73	141.57
	50	rnd	47298	47276.13	5.67	47301	47277.67	7.62	47326	47293.4	16.25	47338	47311.77	14.98
	20	rnd	45137	44882.23	125.28	46046	45775.8	119.74	46325	46061.6	135.08	46520	46301	106.53
		2op	47282	47274.33	1.49	47291	47275.47	3.47	47304	47282.03	9.92	47351	47316.17	18.24

Table A.358: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	44735	44558.53	101.14	45754	45516.03	129.26	46074	45801.33	130.9	46251	46031.63	155.86
		2op	47276	47273.97	1.07	47292	47276.13	5.24	47322	47287.33	13.98	47344	47307.17	17.63
	50	rnd	44885	44571.73	131.6	45917	45500.2	157.51	45988	45782.97	111.72	46259	45979.53	158.04
51	20	rnd	47276	47274.07	0.37	47298	47275.73	4.59	47307	47279.37	8.22	47361	47312.27	21.43
		2op	45127	44858.2	171.57	46125	45795.43	172.87	46352	46120.77	92.64	46473	46265.53	111.55
	50	rnd	47292	47275.47	4.73	47312	47281.67	11.29	47318	47286.17	13.62	47347	47312.8	16.58
	20	rnd	45038	44815.3	146.02	45994	45771.37	125.5	46288	46004.5	135.13	46479	46248.3	144.99
		2op	47276	47274.2	0.61	47292	47276.37	4.77	47320	47285.57	12.7	47355	47311.6	18.75

Table A.359: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	149230	148025.6	610.06	149300	148429.4	537.74	148965	148301.97	413.24	148226	147431.67	635.83
		2op	150493	149733.7	491.59	150383	149715.7	467.37	150483	149600.7	523.98	149782	149064.47	681.74
	50	rnd	149049	148234.57	607.84	149175	148290.4	596.04	148814	148230.23	403.84	149213	148241.77	461.91
51	20	2op	150399	149520.13	479.7	150376	149662.13	492.44	150383	149540.37	473.68	150396	149365.43	429.42
		rnd	149183	148745.07	391.22	149275	148950.7	254.41	149283	148962.83	239.71	149120	148662.27	317.29
	50	2op	150833	150577	268.89	150758	150372.53	334.18	150778	150437.67	218.79	150727	150154.17	344.15
	20	rnd	149165	148601.27	346.89	149254	148909.3	250.87	149327	148937.97	255.12	149206	148787.43	310.16
		2op	150761	150265.57	409.95	150767	150343.87	269.84	150842	150371.87	235.62	150707	150239.77	264.73

Table A.360: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	148867	147827.07	566.66	149135	148267.7	522.91	149002	148252.17	525.01	148394	147473.7	575.38
		2op	150065	149720.97	278.57	150298	149609.67	453.29	150310	149482.1	568.51	150059	149066.7	531.33
	50	rnd	149095	147927.77	740.22	149207	148279.63	556.84	149079	148189	466.97	149069	148223.67	445.43
51	20	2op	150266	149556.7	426.54	150447	149638.93	450.73	150142	149544.17	350.59	150296	149158.47	606.88
		rnd	149149	148833.9	257.55	149289	148849.5	300.09	149303	148961.77	228.09	149170	148740.5	213.34
	50	2op	150785	150387.43	346.51	150707	150448.7	284.73	150859	150430.9	272.94	150687	150110.27	441.98
	20	rnd	149219	148682.53	340.87	149232	148838.73	342.48	149323	148912.33	309.58	149229	148937.73	208.42
		2op	150839	150395.47	274.2	150754	150336.63	257.67	150788	150356.1	201.76	150691	150101.33	379.4

Table A.361: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	149165	148968.03	141.8	149291	149089.93	166.37	149292	149051.67	168.64	149230	148863.57	176.65
		2op	150949	150730.6	180.94	150949	150790.7	119.17	150886	150737.03	128.38	150866	150623.27	131.51
	50	rnd	149191	148747.03	331.83	149314	149021.37	247.83	149355	149087.97	195	149181	148880.77	236.33
51	20	2op	150949	150671.23	241.24	150867	150695.83	166.59	150867	150644.27	183.02	150852	150647.5	123.87
		rnd	149195	149050	82.15	149254	149104.23	77.62	149295	149147.53	73.98	149367	149179.37	69.02
	50	2op	150949	150944.7	8.16	150951	150944.07	11.5	150949	150947.13	5.77	150949	150944	9.12
	20	rnd	149206	149111.73	60.54	149315	149246.03	54.23	149430	149312.57	67.29	149488	149294.77	79.19
		2op	150949	150937.23	22.45	150949	150943.6	12.44	151012	150946.6	15.64	150970	150939.97	24.87

Table A.362: *acin2*: basicRRGA+IM: 500 – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	149162	148875.2	210.35	149241	148924.17	261.66	148894	148303.3	428.13	148291	145692.17	818.28
		2op	150935	150755.6	154.76	150936	150766.2	111.05	150929	150454.7	246.76	150615	149634.3	457.32
	50	rnd	149187	148707.9	261.62	149150	148771.6	337.38	148801	148288.7	291.23	146766	145660.47	588.55
51	20	rnd	150791	150464.5	226.56	150587	150340.6	167.83	150430	149975.33	271.35	149973	148717.6	616.28
		2op	149251	149123.33	84.36	149369	149188.97	86.9	149128	148792.5	170.2	147227	146519.7	398.07
	50	rnd	150949	150943.13	17.35	151012	150950.23	18.29	150938	150867.83	44.99	150528	149945.33	282.56
	20	rnd	149331	149173.93	87.38	149259	149095.57	83.07	148833	148589.93	187.5	147394	146784.67	374.19
		2op	150951	150898.67	46.99	150982	150812.6	90.02	150722	150475.4	162.31	150222	149464.73	428.11

Table A.363: *acin2*: basicRRGA+IM: 5000 – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	144566	143681.93	439.62	146174	145341.33	458.67	146583	146111.27	349.97	147164	146644.4	279.64
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150951	150949.13	0.51
	50	rnd	145274	143729.6	562.35	146090	145154.4	541.66	146492	145833.9	375.61	147109	146443.77	325.69
51	20	rnd	150949	150949	0	150949	150949	0	150949	150949	0	150951	150949.13	0.51
		2op	145059	144029.07	555.62	146861	146061.07	314.68	147274	146551.4	303.09	147335	146949.47	209.64
	50	rnd	150949	150949	0	150949	150948.27	4.02	150949	150949	0	150949	150949	0
	20	rnd	144981	143970.7	500.18	146560	145761.3	374.15	146865	146434.47	307.13	147262	146828.37	231.19
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150951	150949.07	0.37

Table A.364: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	144961	143630.77	427.54	145998	145227.67	479	146900	146050.4	465.91	147140	146603.57	308.27
		2op	150949	150949	0	150949	150949	0	150951	150946.57	13.71	150951	150949.13	0.51
	50	rnd	144474	143541.03	430.79	145855	145142.17	439.2	146379	145840.8	467.29	146980	146457.23	364.9
51	20	rnd	150949	150949	0	150949	150949	0	150949	150949	0	150951	150949.13	0.51
		2op	145325	143979.4	532.02	146647	145979.07	385.2	146954	146507.6	326.82	147422	146901.8	209.57
	50	rnd	150949	150949	0	150951	150949.07	0.37	150949	150949	0	150951	150949.07	0.37
	20	rnd	144702	143867.6	373.99	146480	145843.57	352.39	146902	146290.67	274.23	147253	146771.87	240.18
		2op	150949	150949	0	150949	150949	0	150951	150949.07	0.37	150949	150949	0

Table A.365: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163715	162973.97	510.6	163953	163150.3	367.82	163627	163023.63	346.49	162859	162154.4	437.91
		2op	165762	165171.93	360.48	165577	165096.37	357.85	165538	164589.1	493.75	165078	164075	483.19
	50	rnd	163678	163040.63	441.54	163856	163336.03	445.45	163788	163262.4	356.98	163442	162993.3	237.46
51	20	rnd	165502	164824.3	442.96	165548	164864.83	408.51	165553	164711.07	493.65	165142	164450.17	368.1
		2op	163588	163320.1	256.03	163924	163516.37	219.47	163814	163458.6	224.63	163358	163026.23	214.82
	50	rnd	165976	165711.97	220.64	166011	165707.03	178.91	165866	165571.43	197.22	165742	165178.5	351.35
	20	rnd	163668	163367.1	264.57	164013	163572.9	261.42	164079	163640.27	210.57	163737	163368.8	228.16
		2op	165896	165572.83	205.62	165966	165662.7	201.22	165824	165598.27	177.48	165736	165307.9	318.22

Table A.366: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163619	162840.3	488.18	163877	162978.13	467.14	163479	162946.63	331.28	162735	162081.47	350.91
		2op	165532	164883.07	503.99	165525	164969.4	393.44	165429	164564.6	459.61	164922	163867.87	552.8
	50	rnd	163739	163092.5	471.24	163766	163134.37	341.8	163792	163164.97	319.57	163543	162861.57	290.25
51	20	rnd	165640	164858.73	470.29	165636	164704.77	488.85	165512	164798.3	399.85	165345	164461.13	445.86
		2op	163872	163319.27	243.46	163982	163497.87	254.94	163799	163440.73	216.88	163385	163003	266.2
	50	rnd	165957	165680.33	271.87	165951	165636.83	211.23	165891	165560.23	233.83	165471	165053.3	266.17
	20	rnd	163739	163333.9	260.92	164046	163532.27	227.75	164002	163630.1	244.99	163820	163358.8	212.06
		2op	165917	165472.53	314.6	165900	165641.3	159.09	165784	165524.77	198.03	165756	165375.1	273.94

Table A.367: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163793	163453.17	186.89	164147	163606.1	199.15	163922	163596.5	158.31	163708	163338.53	217.92
		2op	166127	165955.37	121.21	166172	166015.73	80.87	166047	165812.2	137.29	165964	165602.2	181.66
	50	rnd	163834	163405.77	172.7	163900	163629.37	178.81	164249	163719	219.76	163888	163347.8	359.35
51	20	rnd	166186	165948.47	117.83	166049	165917.43	72.15	166067	165849.6	151.59	165953	165599.57	200.78
		2op	163929	163625.2	162.52	164173	163719.3	169.98	164045	163673.43	150.16	164073	163720.3	194.75
	50	rnd	166172	166168.9	7.17	166172	166167.1	14.23	166243	166170.97	22.47	166295	166178.03	30.36
	20	rnd	164083	163645.97	206.67	164265	163812.43	191.96	164202	163890.4	144.27	164259	163847.63	224.07
		2op	166172	166161.27	18.76	166315	166172.97	44.04	166277	166170.73	34.2	166172	166150.57	26.2

Table A.368: *acin3*: basicRRGA+IM: 500 – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163951	163521.3	198.25	163745	163390.2	159.56	163171	162475.37	314.81	161252	159809.07	850.86
		2op	166241	165985.8	92.39	166118	165854.63	154.79	165902	165592.2	179.78	165457	164684.07	476.52
	50	rnd	163712	163359.07	260.52	163692	163138.63	223.31	162889	162315.77	313.43	160963	159917.83	531.85
51	20	rnd	165931	165662.97	145.54	165753	165346.57	172.45	165374	164872.97	305.94	164632	163695.7	500.47
		2op	164106	163685.33	193.78	163780	163539.33	146.62	163565	162952.03	247.85	161379	160557.9	375.03
	50	rnd	166172	166169.13	8.84	166326	166210.37	63.31	166153	165980.07	78.38	165488	165013.17	214.67
	20	rnd	163989	163715.57	171.49	163752	163401.13	203.01	163027	162674.43	223.6	161759	160924.53	327.04
		2op	166202	166127.13	57.89	166107	165864.63	150.15	165634	165398.3	136.91	165195	164523.37	331.33

Table A.369: *acin3*: basicRRGA+IM: 5000 – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	156836	155512.43	591.58	158890	157603.23	651.3	159634	158830.57	444.83	160281	159582.2	406.66
		2op	166172	166172	0	166172	166171.5	2.74	166172	166172	0	166172	166172	0
	50	rnd	156338	155360.4	452.77	158662	157553.93	642.4	159719	158787.6	525.84	160256	159313.8	462.05
51	20	rnd	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
		2op	157857	155964.97	761.5	159875	158659.57	526.88	160362	159508.87	381.66	160866	160278.43	308.22
	50	rnd	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	20	rnd	157893	155821.1	637.29	159673	158505.73	642.96	159956	159399.8	448.24	160962	160207.43	344.05
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0

Table A.370: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	156653	155651.1	565.61	158837	157505.07	702.77	159563	158658.33	614.63	160260	159672.8	410.65
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	156501	155314.9	563.72	158479	157474.13	675.1	159594	158664.97	617.91	159936	159427.33	403.51
51	20	rnd	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
		2op	156968	156062.03	564.82	159458	158635.1	564.92	160360	159654.27	386.77	160726	160257.7	251.22
	50	rnd	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	20	rnd	157448	156029.2	700.53	160044	158706.37	539.02	159957	159378.17	326.37	160780	160135.93	319.36
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0

Table A.371: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	159030	158689.57	199.97	159224	158823.23	189.64	158923	158604.97	177.51	158340	157824.9	238.3
		2op	161736	161293.93	299.48	161495	161148.4	211.55	161510	160799.1	297.8	161206	160230.93	423.27
	50	rnd	159199	158708.3	302.25	159324	159049.33	184.96	159116	158819.07	180.17	158823	158504.57	210.12
51	20	rnd	161507	161158.53	271.97	161469	161055.33	225.07	161228	160895.43	260.01	161230	160545.57	333.2
		2op	159056	158731.2	237	159288	158991.4	156.11	159188	158851.3	157.35	158650	158338.97	222.33
	50	rnd	162088	161792.27	165.3	161924	161725.93	120.82	161827	161554.83	194.7	161587	161104.47	245.9
	20	rnd	158960	158748.83	157.35	159448	159077.1	178.28	159456	159168.63	132.69	159023	158715.13	156.7
		2op	162023	161702.8	174.01	162131	161675.07	209.75	161804	161512.53	153.87	161724	161317.73	210.66

Table A.372: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	159194	158665.9	296.26	159245	158841.87	196.15	158977	158452.97	222.15	158230	157688.57	326.18
		2op	161768	161298.5	308.45	161432	160995.83	250.31	161077	160618.17	302.63	161107	160183.1	421.42
	50	rnd	159150	158735.17	171.47	159339	159049.67	187.25	159098	158852.9	137.17	158817	158375.57	192.43
51	20	rnd	161545	161098.27	254.2	161399	160934.87	266.27	161289	160774.63	255.71	160878	160417.13	302.07
		2op	158994	158778.23	147.16	159133	158984.43	143.46	159164	158834.9	200.94	158887	158407.3	227.73
	50	rnd	162146	161827.1	176.47	161985	161767.47	145.67	161965	161512.23	201.71	161657	161206.3	297.71
	20	rnd	159080	158764.83	188.08	159319	159125.8	167.25	159322	159065.4	201.11	158989	158697.53	163.99
		2op	161980	161711.97	155.73	161916	161646.03	197.13	161809	161534.5	199.23	161510	161245.53	250.97

Table A.373: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	158974	158758.33	127.56	159232	159008.4	123.69	159172	158882.07	123.74	159220	158681.5	298.83
		2op	162261	162062.5	133.84	162166	161984.8	105.5	162187	161842.73	132.79	161988	161701.73	185.67
	50	rnd	158988	158706.17	118.77	159398	159134.4	121.4	159273	159094.93	154.62	159347	158856.8	309.4
51	20	rnd	162225	162030.2	124.6	162170	161973.9	183.07	162151	161895.57	153.94	162131	161648.77	203.8
		2op	159085	158771.4	147.42	158980	158832.77	99.25	159131	158868.13	123.96	159064	158798.47	140.7
	50	rnd	162329	162322.4	14.41	162334	162324.77	11.42	162331	162324.7	12.16	162333	162319	18.86
	20	rnd	159050	158806.3	107.43	159250	159002.67	146.22	159251	159010.43	100.7	159165	159000.57	120.98
		2op	162331	162315.07	18.74	162331	162309.8	25.01	162332	162318.53	16.01	162334	162286.73	35.74

Table A.374: *acin5*: basicRRGA+IM: 500 – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	158944	158722.43	149.79	158645	158450.5	135.39	158129	157670.07	351.44	158251	156154.83	953.4
		2op	162329	162126.33	83.65	162200	161975.1	126.16	161885	161628.23	177.42	161433	161117.63	198.77
		50	rnd	159084	158783.07	188.47	158642	158384.93	154.92	158062	157639.13	192.46	156507	155882.03
51	20	2op	162069	161732.9	162.33	161746	161334.83	214.07	161703	160810.53	363.03	160954	160060.57	420.76
		50	rnd	158827	158654.6	105.11	158544	158278.4	115.42	158132	157795.83	162.59	156692	156001.57
		2op	162331	162321.7	15.88	162332	162323.77	14.68	162244	162104.57	80.22	161660	161355.73	358.6
	50	rnd	158907	158677.97	111.35	158443	158246.47	95.5	157992	157686.83	131.42	156828	156452.93	190.81
		2op	162331	162288.43	62.22	162220	162004.3	140.38	161914	161479.17	178.84	161242	160818.53	232.05

Table A.375: *acin5*: basicRRGA+IM: 5000 – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	148806	147880.37	368.41	150458	149680.27	433.25	151150	150504.7	333.45	151802	151202.37	297.66
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
		50	rnd	149099	147881.43	437.15	151005	149529.3	587.3	150899	150266.1	387.19	152085	151035.77
51	20	2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
		50	rnd	149783	148378.93	524.18	151774	150406.13	544.19	152121	151223.63	439.22	152528	151936.6
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	148913	148099.9	380.94	151077	150209.37	501.59	151616	151053.2	339.01	152421	151863.63	319.04
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0

Table A.376: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	148644	147960.97	345	150488	149665.97	492.04	151736	150440.4	550.89	151696	151049.8	340.67
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
		50	rnd	148524	147746.97	369.51	150657	149414.33	500.35	151397	150317.3	495.85	151793	151053.83
51	20	2op	162329	162329	0	162329	162329	0	162329	162329	0	162331	162329.07	0.37
		50	rnd	149463	148284.63	416.63	151467	150289.4	547.37	152000	151090.9	393.66	152467	151831.43
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	148796	148149.13	330.71	150843	150230.17	397.52	151765	151148.23	286.62	152506	151933.67	288.95
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162331	162329.07	0.37

Table A.377: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	175002	174665.37	163.14	175098	174768.7	118.51	174890	174505.33	198.76	174070	173654.33	202.03
		2op	178758	178383.43	177.93	178453	178131	143.58	178286	177775.9	206.45	177998	177304.43	347.39
	50	rnd	175133	174748.77	171.38	175366	175092.2	145.58	175354	174932.13	146.6	174629	174355.7	166.03
51	20	rnd	178612	178192.87	210.67	178354	178088.63	189.99	178157	177828.73	265.83	177912	177491.73	256.8
		2op	174911	174612.53	139.59	175419	174893.93	158.91	175159	174828.4	192.04	175095	174319.23	331.24
	50	rnd	179238	178900.63	142.96	179033	178753.47	139.73	178808	178465.5	221.7	178500	178126.7	245.33
	20	rnd	175050	174693.4	153.09	175273	175094.5	129.27	175351	175055.33	129.24	175320	174645.07	253.51
		2op	179189	178826	156.82	179070	178707.1	185.11	178840	178563.53	160.94	178611	178185.63	225.22

Table A.378: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	174891	174613.43	258.33	175004	174742.43	126.22	174843	174386.77	197.09	174014	173527.6	152.08
		2op	178690	178351.5	170.31	178424	178106.1	216.21	178065	177723.07	232.22	177967	177254.5	325.66
	50	rnd	175216	174730.47	234.55	175474	175047	178.26	175061	174837.9	130.89	175084	174314.13	252.81
51	20	rnd	178691	178171.13	214.27	178465	178016.5	222.32	178155	177717.33	255.96	177872	177419.3	266.52
		2op	174854	174647.8	123.7	175195	174870.77	129.27	175021	174727.03	183.55	175054	174362.83	353.05
	50	rnd	179082	178914.43	105.26	179084	178721.93	164.11	178890	178414.9	180.08	178678	178124.1	227.92
	20	rnd	174970	174650.8	145.83	175392	175134.77	126.74	175373	175016.37	147.07	175510	174721.7	289.41
		2op	178995	178770.03	114.35	178989	178665.93	177.59	178802	178522.93	157.09	178496	178134.53	213.01

Table A.379: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	174867	174570.13	136.94	175020	174796.4	144.39	175119	174816.63	141.27	175093	174600.7	370.56
		2op	179328	179129.87	117.37	179225	179002.67	131.03	179045	178710.33	207.74	178829	178492.53	199.45
	50	rnd	175057	174666.33	162.37	175251	175051.87	114.69	175343	175010.1	163.84	175448	174942.07	388.33
51	20	rnd	179274	179067.5	101.98	179252	179020.47	129.05	179133	178868.07	141.98	179081	178586.97	219.67
		2op	174937	174650.3	142.45	175009	174616.27	186.52	174905	174646.53	154.19	174845	174598.17	134.87
	50	rnd	179375	179370.83	11.93	179375	179372.3	8.32	179375	179366.07	19.8	179375	179365.1	12.72
	20	rnd	174960	174650.77	170.82	175057	174775.73	147.38	175036	174797.37	158.48	175095	174834.43	146.39
		2op	179375	179359.27	20.59	179375	179367.4	12.41	179375	179363.27	17.51	179375	179332.37	36.95

Table A.380: *acin7*: basicRRGA+IM: 500 – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	174682	174433.3	123.36	174277	174007.63	149.67	173714	173402	207.47	173789	172035.33	1129.16
		2op	179345	179189.33	121.62	179129	178937.57	134.95	179045	178598.97	238.07	178549	178106.07	274.62
	50	rnd	174813	174543.67	119.75	174147	173976.87	137.63	173691	173232.9	259.43	173363	171801.07	425.49
51	20	rnd	179250	178959.77	179.89	178913	178498.6	207.62	178670	177912.1	358.78	178127	177369.27	312.13
		2op	174509	174216.8	135.07	173978	173680.27	123.83	173558	173261.53	149.82	172002	171496.37	278.89
	50	rnd	179375	179375	0	179375	179373.4	5.16	179268	179162.93	67.12	178667	178414.6	153.85
	20	rnd	174542	174239.2	118.69	173896	173660.4	116.31	173574	173226.37	164.3	173144	171992.47	334.74
		2op	179375	179360.9	23.5	179349	179126.57	109.2	178945	178618.1	156.39	178234	177906.93	151.45

Table A.381: *acin7*: basicRRGA+IM: 5000 – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163764	162917.03	331.64	164610	163988.77	395.32	164976	164670.9	215.2	165297	165089.03	183.13
		2op	179373	179373	0	179373	179373	0	179375	179373.27	0.69	179375	179373.67	0.96
	50	rnd	163349	162840.8	264.17	164567	163977.6	304.89	164963	164549.9	228.68	165224	165070.93	118.08
51	20	rnd	179375	179373.07	0.37	179373	179373	0	179375	179373.13	0.51	179375	179373.67	0.96
		2op	163593	162994.67	273.6	164841	164573.63	258.03	165178	165036.9	109.17	165532	165413.9	64.03
	50	rnd	179373	179373	0	179373	179373	0	179375	179373.27	0.69	179375	179373.47	0.86
	20	rnd	163882	162986.63	326.51	164817	164489.5	214.17	165131	164954.27	115.42	165491	165355.77	96.93
		2op	179373	179373	0	179373	179373	0	179375	179373.13	0.51	179375	179373.67	0.96

Table A.382: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163333	162870.4	221.85	164707	164025.77	376.72	165050	164647.5	235.11	165310	165020.33	179.66
		2op	179373	179373	0	179373	179373	0	179375	179373.13	0.51	179375	179373.73	0.98
	50	rnd	163386	162837.37	213.98	164312	163937.8	249.27	164922	164493.07	277.27	165244	164986.5	169.82
51	20	rnd	179373	179373	0	179375	179373.07	0.37	179375	179373.27	0.69	179375	179373.67	0.96
		2op	163540	162932.17	290.29	164832	164523.8	228.39	165170	165007.87	149.63	165497	165385.03	73.21
	50	rnd	179373	179373	0	179373	179373	0	179375	179373.27	0.69	179375	179373.8	1
	20	rnd	163610	163006.47	287.29	164817	164476.93	240.42	165099	164976.93	94.03	165470	165357.73	75.05
		2op	179373	179373	0	179375	179373.07	0.37	179375	179373.07	0.37	179375	179373.4	0.81

Table A.383: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	336713	335732.3	480.95	335100	334142.3	605.24	332282	330481.97	993.91	328931	324944.07	1720.22
		2op	341730	340982.27	490.1	340897	339219.3	990.43	339968	337417.9	1354.95	336836	333430.03	1787.15
	50	rnd	336864	335964.6	525.09	336468	335346.7	582.02	335553	334110.97	741.29	332292	330742.33	891.42
51	20	rnd	341433	340628.03	511.24	341121	340140.43	566.82	339969	338966.43	746.05	338968	336937.73	1420.81
		2op	336803	336321.1	347.44	336509	335556.73	541.92	335674	334276.87	638.19	332878	330675.07	1236.43
	50	rnd	342027	341573.77	227.12	341737	340966.97	437.34	340727	339816.73	756.33	339700	338051.53	1070.36
	20	rnd	336982	336398.33	385.58	337033	336145.47	423.38	336534	335655.97	447.82	335420	334099.27	670.54
		2op	341846	341500.17	330.57	342003	341356.27	309.91	341548	340694.17	513.46	340799	339575.03	717.39

Table A.384: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	336753	335988.63	543.11	335228	333882.17	665.17	332541	330477.57	1034.16	326463	323870.63	1395.64
		2op	341488	340567.87	509.17	340374	338864.63	831.88	338466	336565.73	1247.01	336185	332724.4	1580.76
	50	rnd	336689	335661.8	747.64	335931	335016.5	671.41	335102	333542.53	762.07	332143	329767.73	1075.63
51	20	rnd	341247	340509.4	521.29	341006	339892.43	691.8	339954	338525.27	843.98	338511	335849.5	1161.6
		2op	336862	336261.43	408.84	336474	335540.87	544.1	335558	334104.93	785.86	333240	330728.57	1072.01
	50	rnd	342000	341487.47	445.65	341516	340830.37	433.83	341143	339634.17	725.02	340189	337920.37	1261.26
	20	rnd	336957	336343.37	382.29	336944	336311.43	393.03	336252	335358.5	358.53	334866	333679.23	684.56
		2op	341989	341469.5	266.99	341868	341194.13	391.58	341549	340679.37	497.58	340707	339345.5	918.11

Table A.385: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	336790	336487.63	233.11	337038	336236.6	394.98	336409	335594.23	456.66	336163	334177.83	1160.49
		2op	342163	341916.9	216.74	341938	341506.9	269.82	341682	340921.23	429.36	341667	340071.23	654.04
	50	rnd	336981	336495.57	241.5	336922	336535.23	255.94	336933	336050.23	467.63	335851	334401.63	763.36
51	20	rnd	342178	341891.37	166.31	342034	341717.63	246.35	341974	341341.2	273.25	341321	340542.17	497.41
		2op	336909	336675.97	126.72	336888	336632.13	143.92	336987	336734.03	125.16	336951	336679.8	139.16
	50	rnd	342208	342201.17	19.08	342208	342197.63	18.14	342208	342187.8	23.28	342208	342170.2	25.15
	20	rnd	336925	336703.67	117.06	337054	336806.97	118.92	337020	336789.2	115.53	337069	336813.57	133.71
		2op	342208	342194.67	20.33	342208	342191.9	18.53	342208	342166	28.89	342208	342077.47	92.11

Table A.386: *acin9*: basicRRGA+IM: 500 – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	336706	336286.7	262.75	335805	335100.67	415.07	334828	332404.7	1472.22	325023	321076.7	1595.66
		2op	342126	341974.63	143.51	341949	341355.17	322.27	341434	340499.73	558.26	340202	338748.23	1027.74
	50	rnd	336946	336258.4	323.77	335400	334181.87	684.89	330619	327559.07	1388.27	322490	319194.13	1635.08
51	20	rnd	342161	341849.13	193.39	341820	341247.7	407.94	341618	339752.53	630.87	339050	337133.9	983.76
		2op	336510	336358.47	83.52	336045	335673.77	177.62	335233	334413.67	484.52	327897	325501.93	957.53
	50	rnd	342208	342202.03	13.38	342208	342179.4	56.6	342084	341804.53	154.52	340904	339622.1	656.8
	20	rnd	336525	336254.8	164.64	335149	334779.13	291.72	333043	330792.3	967.27	324792	323493.67	749.1
		2op	342208	342198.67	15.71	342153	341936.83	116.07	341558	340920.37	344.87	340420	338432.2	810.61

Table A.387: *acin9*: basicRRGA+IM: 5000 – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	323508	322282.8	486.41	326613	324980.33	815.09	327840	326328.27	816.66	328993	327697.2	576.84
		2op	342208	342138.87	18.52	342208	342162.87	35.96	342206	342172.47	36.46	342208	342201.57	18.38
	50	rnd	322955	322103.73	477.71	326211	324620.17	824.68	327866	326016.03	852.71	329043	327553.77	850.81
51	20	rnd	342134	342134	0	342206	342158	34.52	342206	342177.2	35.88	342208	342203.8	12.82
		2op	323358	322616	477.85	327611	326221.13	1011.25	329223	328163.77	600.08	330197	329422.67	402.56
	50	rnd	342206	342143.6	24.89	342206	342170	36.62	342208	342186.87	32.43	342208	342206.2	0.61
	20	rnd	324127	322463.07	662.69	327687	325916	871.08	328495	327848.97	536.47	330297	329208.13	519.25
		2op	342136	342134.07	0.37	342208	342160.47	35.38	342206	342182	34.52	342208	342201.47	18.35

Table A.388: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	323226	322153.6	495.65	326091	324628.3	740.62	328013	326124.37	862.6	328947	327752.3	724.43
		2op	342206	342138.8	18.27	342206	342148.4	29.29	342208	342170.2	36.55	342208	342203.8	13.2
	50	rnd	323564	322037.77	609.02	326086	324341.3	716.23	327798	326111.3	957.52	329212	327464.33	908.96
51	20	rnd	342134	342134	0	342206	342165.33	36.17	342206	342172.53	36.39	342208	342198.67	20.76
		2op	324413	322925.07	703.35	327930	326115.4	906.4	329472	328083.67	662.65	330066	329205.87	459.28
	50	rnd	342206	342138.8	18.27	342206	342165.2	36.29	342208	342182.07	34.57	342208	342201.73	18.43
	20	rnd	324829	322733.13	710.83	327664	326149.3	899.29	328854	327841.9	588.61	330153	329202.27	436.89
		2op	342206	342136.4	13.15	342206	342158	34.52	342206	342174.8	36.29	342208	342203.93	12.85

Table A.389: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179688	175252.93	2367.43	187774	182513.27	2488.27	191370	186144.77	2036.07	191701	187741.03	1900.3
		2op	224842	223524.67	860.47	225071	224044.8	659.95	225111	224144.8	656.57	223637	222208.93	726.71
	50	rnd	181378	174955.4	3469.14	190269	184014.7	2193.58	190191	187265.63	1726.04	193883	190041.63	1642.35
51	20	rnd	224468	223553.6	644.75	225074	224086.6	559.21	225170	224108.37	698.96	224831	224002.3	496.66
		2op	182215	175638.8	3138.43	187202	181079.57	2695.76	188360	182097.1	2105.7	189561	184348.1	2505.71
	50	rnd	225018	224235.17	352.64	225216	224641.03	381.71	225204	224719.1	295.02	224827	224091.6	440.39
	20	rnd	178946	174517.43	2109	183011	179804.13	2127.3	190153	183758.33	2340.28	191789	186647.57	2110.49
		2op	225034	224242.5	518.29	225148	224540.87	442.03	225230	224715.77	388.36	225238	224798.8	377.33

Table A.390: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179944	174546.7	2758.91	189799	183749.97	2203.72	191018	186900.3	2486.79	191603	187169.67	2424.4
		2op	224900	223445.77	959.91	224845	223927.43	652.6	225238	223945.7	695.98	224656	222110.7	951.78
	50	rnd	181203	175225.8	2225.86	188941	184049.8	2288.58	191582	187663.9	2025.02	194787	190667.97	1444.45
51	20	rnd	225075	223614.43	834.42	225163	223918.97	558.55	225173	224134.33	563.89	224950	223606.2	700.64
		2op	179633	174764.4	2266.74	183971	179919.67	2005.25	186137	182083.2	2566.54	187898	183912.93	1651.11
	50	rnd	224866	224216.4	399.7	225192	224631.8	345.33	225181	224774.63	372.78	224947	224155.73	450.34
	20	rnd	179440	175311.13	2099.87	185195	180974.63	2121.63	188541	184593.4	2175.05	192058	185717.1	2241.7
		2op	224985	224248.93	501.13	225198	224598.43	392.22	225224	224683	328.27	225227	224791.63	327.89

Table A.391: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	177309	172830.7	2488.01	179693	176278.13	2325.88	182388	177082.53	3220.87	181974	177398.77	2462.63
		2op	224881	224329.8	226.78	225213	224637.3	327.36	225263	225016.5	234.98	225097	224373.7	329.22
	50	rnd	181334	175013.07	2832.45	184228	178186.57	2906.41	187511	179494.93	2732.24	187301	181982.03	2527.25
51	20	rnd	225034	224473.6	213.35	225222	224832.2	299.79	225266	224980.97	261.12	225266	224986.57	196.67
		2op	180976	173943.87	2608.5	179944	175324.17	2310.32	180066	175209.2	2925.84	181510	176935.77	2209.12
	50	rnd	224851	224371	145.51	225068	224571.2	222.7	225266	224905.97	289.03	225266	225118.03	213.01
	20	rnd	180289	175941.77	2371.83	181124	177135.27	2428.18	183420	178954.23	2467.7	184848	179451.33	2857.21
		2op	225230	224561.87	317.93	225266	224945.9	244.21	225266	225121.43	233.98	225283	225252.8	32.7

Table A.392: *bx842596_4*: basicRRGA+IM: 500 – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	180955	175998.57	2134.07	184561	179622.83	2087.36	185464	181230.57	2167.26	184969	182136.47	1841.83
		2op	224998	224492.2	285.97	225263	225010.77	270.03	225200	224742.47	342.07	223439	222748.9	402.57
	50	rnd	182820	177836.47	2013.44	187219	183812.17	2140.34	190150	186606.57	1767.81	191243	186843.93	3176.62
51	20	2op	225221	224679.67	302.53	225266	224972.77	247.57	225256	224940.8	259.6	223140	222255.47	534.02
		rnd	184709	179166.57	2664.8	188077	181159.9	2146.75	187713	181824.5	2552.07	186166	182146.87	2097.52
	50	2op	225257	224688.2	295.13	225266	225161.13	211.25	225260	225048.63	209.73	223469	222617.8	386.06
	20	rnd	184260	180364.9	2113.99	186525	183647.63	1480.19	189639	184591.97	1677.36	190071	184660.9	2585.75
		2op	225280	225027.43	243.57	225283	225260.2	15.54	225194	224791.73	224.43	222919	221791.43	464.29

Table A.393: *bx842596_4*: basicRRGA+IM: 5000 – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12039	10527.8	639.86	15949	14221.17	1062.88	17598	15614.53	1192.68	19408	17027.6	1263.68
		2op	224344	224310.17	6.39	224640	224328.7	65.13	224532	224350.3	70.11	225004	224569.53	199.3
	50	rnd	11764	10513.8	456.06	16041	14032.67	904.88	17225	15513.87	910.5	18855	16547.83	1117.31
51	20	2op	224309	224309	0	224462	224314.3	27.92	224524	224352.3	73.91	224985	224480.83	163.88
		rnd	12979	11841.13	571.41	18803	16933.97	905.81	20856	18355.4	963.57	21473	19607.2	1170.76
	50	2op	224315	224309.2	1.1	224603	224336.17	71.28	224640	224359.87	86.46	225034	224617.63	213.53
	20	rnd	13090	11974.5	574.45	18656	16884.67	936.94	19896	18379.2	678.51	22632	20135.3	1203
		2op	224458	224314.17	27.19	224612	224341.93	73.47	224845	224401.63	130.25	224976	224544.1	175.2

Table A.394: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12143	10404.17	690.82	15322	13755.23	879.43	16756	15390.8	778.53	18517	16732.77	1050.91
		2op	224315	224309.2	1.1	224512	224315.93	37.04	224787	224422.03	139.57	225049	224538.87	221.54
	50	rnd	11523	10211.43	597.07	16755	13958.67	947.56	18687	15632.17	1072.12	19420	16526.57	1362.06
51	20	2op	224315	224309.2	1.1	224496	224321.67	39.83	224787	224369.2	110.04	224900	224537.53	192.73
		rnd	13162	11887.23	603.77	18005	16456.5	657.41	19720	18057.6	869.41	21617	19744.2	1019.96
	50	2op	224462	224314.5	27.9	224649	224342.3	76.29	224662	224409.13	115.01	225036	224563.37	196.57
	20	rnd	13254	11808.23	564.7	18268	16594.53	904.93	20176	18053.27	890.49	21718	19934.97	1057.92
		2op	224309	224309	0	224462	224323.23	42.63	224611	224369.83	100.9	225218	224548.13	223.33

Table A.395: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	344717	336940.13	3735.55	352082	348271.8	2682.99	358467	351434.3	3545.61	360230	351729.07	4365.52
		2op	437500	437212.53	252.7	437569	436965.87	363.8	435906	435048.57	535.76	434496	432223.97	916.21
	50	rnd	344472	336003.17	3905.03	360562	352088.93	4226.95	361298	356016.5	2760.52	366684	359500.2	4321.65
51	20	rnd	437706	437284.83	252.41	437790	437432.17	251.86	437645	437021.87	362.36	435829	434770.97	588.27
		2op	344529	336218.5	4012.94	351617	342371.67	4205.69	349676	342749.57	2590.93	350395	343786.03	3891.45
	50	rnd	437566	437299.7	167.37	437818	437380.4	222.52	437147	436600.93	306.5	436047	434921.13	684.96
	20	rnd	343361	334027.17	3924.65	355514	345857.9	4511.06	355987	349544.6	2919.79	358672	350454.2	3933.76
		2op	437716	437405.9	151.37	437834	437533.77	161.41	437771	437365.97	238.57	437158	436265.47	482.78

Table A.396: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	341472	335298.67	4105.08	354662	348119.73	3581.08	357328	350889.43	3447.24	359140	351333.97	5657
		2op	437650	437255.6	250.4	437552	436998.97	362.06	436157	435009.93	652.12	434032	431475.63	1181.02
	50	rnd	344273	337609.37	3629.74	356416	352295.77	2681.6	361501	356961.87	2610.56	368068	358607.83	5320.96
51	20	rnd	437757	437261.23	291.13	437660	437281.43	391.64	437521	436814.3	411.21	436123	434619.13	796.86
		2op	344786	335455.77	5096.74	349873	342882	3695.83	349636	343756.33	3234.93	351970	345127.7	3855.34
	50	rnd	437680	437390	179.67	437761	437336.57	202.46	437209	436552.97	315.02	436465	434926.5	618.62
	20	rnd	344422	335350.2	4435.49	350265	344547.57	2873.39	356759	349955.4	3635.58	359096	350666.1	3761.32
		2op	437658	437416.83	128.02	437808	437540.33	167.1	437820	437369.8	222.56	436873	436209.27	355.48

Table A.397: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	339734	332272.7	4112.24	342408	335037.83	3590.17	341886	333779.4	3762.97	346052	335787.53	3860.88
		2op	437625	437467.43	97.79	437714	437501.9	132.47	437400	437033.2	169.75	436988	436208.77	404.95
	50	rnd	340800	333136.7	4224.13	346611	338288.33	3463.32	347474	338463.87	3762.69	348251	339297	4083.08
51	20	rnd	437651	437417.77	135.75	437778	437590.03	119.95	437746	437456.83	161.79	437087	436598.5	326.11
		2op	342723	332777.23	4591	339876	332053.17	3615.93	340079	332391.27	3672	339879	333255.57	3932.24
	50	rnd	437655	437477.7	95.31	437757	437608.7	91.42	437810	437663.67	93.24	437860	437692.03	76.2
	20	rnd	338530	334165.17	2344.5	344965	336298.3	3927.61	341396	335590.9	4475.37	341780	335446.7	3339.28
		2op	437743	437477.6	111.5	437802	437655.23	98.55	437889	437737	74.76	437847	437682.43	106.06

Table A.398: *bx842596_7*: basicRRGA+IM: 500 – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	338057	331583.07	3075.92	338836	333021.2	3142.72	341086	334433.9	3634.33	345562	335276.93	3130.22
		2op	437628	437468.1	111.96	437621	437374.57	180.14	436841	436483.17	239.04	435950	435126.97	481.12
	50	rnd	344256	336205.1	3941.58	348027	340894.5	3092.11	347670	341605.1	2517.19	349966	344986.27	3067.64
51	20	rnd	437701	437419.2	123.67	437755	437502.1	139.77	436803	436141.37	437.21	434868	434075.87	514.42
		2op	336684	332085.67	2735.84	335879	330991.77	2373.23	335515	330026.83	2958.3	333932	328305.5	3586.26
	50	rnd	437715	437526.6	99.25	437811	437675.23	91.6	437459	437280.6	117.69	436676	435852.07	444.33
	20	rnd	342156	336535.63	2770.03	343714	336360.8	3477.97	341232	335557.47	3322.54	341025	336494.73	2049.45
		2op	437781	437597.3	112.17	437901	437682.87	119.3	436872	436316.8	277.06	435195	434125.6	513.3

Table A.399: *bx842596_7*: basicRRGA+IM: 5000 – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19614	18158.77	753.59	25163	23440.63	918.58	27994	25456.63	1076.9	29654	27184.47	1361.91
		2op	437421	437398.77	4.2	437578	437418.37	41.45	437650	437469.07	74.99	437714	437554.47	76.99
	50	rnd	19394	18363	487.67	24528	23267.43	1011.63	27281	25633.8	886.98	29333	27457.8	821.86
51	20	rnd	437529	437408.23	30.35	437475	437400.57	14.06	437608	437442.63	54.73	437710	437556.73	82.9
		2op	21418	20146.23	666.15	28561	26273.5	973.41	30540	28586.47	1218.12	31499	29964.13	902.96
	50	rnd	437475	437402.17	15.1	437650	437428.3	54.5	437652	437502.93	79.34	437746	437614.47	85.73
	20	rnd	21709	20519.03	801.76	27565	26148.87	832.33	30568	28432.2	890.01	33380	30019.37	1361.78
		2op	437417	437398.63	3.47	437573	437410.8	34.92	437602	437458.8	66.78	437710	437578.57	77.55

Table A.400: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19691	17943.5	728.61	25428	23106.33	1016.59	27618	25058.27	1257.18	29228	26970.4	1205.3
		2op	437474	437404	19.26	437609	437436.1	61.56	437650	437458.57	78.36	437697	437535.27	84.65
	50	rnd	19325	18151.2	598.03	24464	22841.47	856.19	27121	25358.43	947.7	29186	26904.4	1260.81
51	20	rnd	437398	437398	0	437571	437412.73	38.16	437573	437427.53	39.69	437690	437557.83	82.26
		2op	21667	20267.07	760.4	27774	26152.13	966.33	30261	28132.8	1057.6	31658	29924.77	956.26
	50	rnd	437475	437406.67	23.37	437609	437443.73	57.25	437650	437470.33	66.05	437734	437585.33	78.16
	20	rnd	22120	20268	720.11	27220	25863.2	937.44	30788	28211.87	1135.3	31516	29694.9	988.27
		2op	437432	437399.13	6.21	437573	437418.37	42.25	437613	437478.6	63.17	437710	437554.53	90.57

Table A.401: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	91820	89429.3	1632.27	96652	94576	1193.78	98251	97120.43	663.59	100279	97958	1310.61
		2op	115230	115065.63	143.45	115346	115050.3	176.49	115264	115147.4	63.68	115217	114998.17	132.31
	50	rnd	93545	90822.37	1460.91	97600	95256.73	1153.01	98943	97372.17	1001.43	101964	99306.03	1269.53
51	20	rnd	115218	115060.03	139.02	115342	115092.33	113.62	115345	115150.43	118.09	115545	115178.27	128.64
		2op	93360	89833.13	1931.94	95030	92827	1223.07	95474	93757	861.27	96842	94856.83	1230.79
	50	rnd	115227	115094.63	61.88	115293	115159.57	58.04	115287	115163.37	70.47	115268	115150.43	56.61
	20	rnd	92975	89702.77	1508.45	96144	93077.43	1399.12	97962	95210.8	1293.37	99076	96566.2	1104.99
		2op	115239	115132.9	52.83	115266	115144.8	52.34	115364	115195.77	69.95	115342	115230.93	60.3

Table A.402: $j02459_7$: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	93433	90332.3	1640.49	97571	95134.43	1315.21	99303	96815.47	1143.82	100053	98506.7	822.52
		2op	115239	115059.7	109.35	115282	115079.3	178.46	115300	115159.7	81.43	115157	115015.63	93.78
	50	rnd	92517	89951.8	1495.15	99138	95598.8	1204.07	99367	97173.37	987.43	101344	99373.2	1059.47
51	20	rnd	115223	115014.3	169.57	115263	115102.9	128.36	115283	115092.57	161.72	115483	115180.43	95.38
		2op	93296	89233.03	1493.5	94587	92202.87	1510.3	95542	94023.5	1144.68	96926	95236.77	1093.05
	50	rnd	115192	115097.63	79.23	115271	115145.23	70.66	115288	115170.47	63.85	115284	115138	66.36
	20	rnd	92830	90196.6	1619.14	95752	93489.9	1177.38	96798	94913.83	1097.58	98580	96647.27	859.62
		2op	115189	115048.1	121.73	115247	115152.7	61.35	115384	115190.47	74.99	115490	115191.07	96.57

Table A.403: $j02459_7$: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	92776	88986.03	1422.14	94933	90900.83	1649.21	94426	91713.47	1403.3	94387	92227	1098.63
		2op	115272	115116.73	53.79	115266	115157.87	36.08	115315	115180.77	43.57	115264	115152.33	49.69
	50	rnd	93477	90166	1236.81	94792	92578.93	1124.2	96468	93297.77	1144.69	96337	94254.77	1154.81
51	20	rnd	115206	115131.23	47.54	115306	115164.63	51.87	115316	115214.2	45.06	115386	115233.13	62.82
		2op	91666	89603.87	1422.06	93516	90938.43	1156.98	93977	90726.1	1607.97	93601	91149.23	1270.02
	50	rnd	115212	115154.57	24.83	115272	115196.07	39.7	115272	115211.77	36.72	115334	115243.8	41.68
	20	rnd	93318	91156.1	1132.83	94754	92451	1318.64	96020	93096	1268.46	96427	93481.03	1533.04
		2op	115245	115155.6	29.55	115310	115219.67	48.61	115362	115261.27	45.42	115425	115314.4	43.83

Table A.404: $j02459_7$: basicRRGA+IM: 500 – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	93945	90689.5	1325.24	95772	93242.93	1348.09	97130	94214.37	1162.47	97564	94963.27	1182.93
		2op	115206	115134.63	44.3	115282	115204.93	43.23	115291	115200.1	51.06	114943	114731.5	113.56
	50	rnd	94193	92132.73	1347.05	97857	95960.97	1062.47	98878	97179.43	993.8	100534	98090.3	999.81
51	20	rnd	115260	115159.53	65.31	115326	115234.43	47.7	115356	115241.2	45.4	114902	114704.27	114.64
		2op	95009	92019.33	1323.31	96373	93691.1	1207.69	95636	94290.03	1011.5	96582	95035.73	1146.94
	50	rnd	115252	115174.03	33.95	115320	115241.8	39.64	115306	115243.57	39.08	114984	114628.27	128.84
	20	rnd	95582	93096.43	1522.54	97892	95735.1	1185.79	97885	96370.4	900.93	98491	96536.1	1170.43
		2op	115342	115232.03	45.92	115421	115318.27	44.17	115334	115236.9	46.07	114774	114506	139.79

Table A.405: $j02459_7$: basicRRGA+IM: 5000 – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10344	9329.43	569.85	14027	12793.3	664.41	16059	14215.73	769.45	16473	14769.6	833.36
		2op	114851	114820.2	8.37	114853	114823.37	11.19	115038	114846.37	40.34	115171	114925.03	86.05
	50	rnd	10491	9300.2	434.67	13968	12879.3	609.23	15444	14153.63	603.95	16708	14864.23	659.95
51	20	rnd	115038	114828.07	40.54	114853	114825.57	13.18	115071	114843.13	46.83	115111	114908.97	79.18
		2op	11467	10331.83	468.36	15050	14263.27	484.72	16711	15490.47	598.98	18166	16225.03	585.3
	50	rnd	114851	114819.1	6.02	114889	114831.17	19.09	115046	114867.27	63.94	115186	114945.9	105.45
	20	rnd	10962	10286.6	365.26	15629	14346.6	503.84	16113	15401.73	485.95	17632	16364.73	591.39
		2op	114851	114822.93	11.38	115037	114834.1	40.74	115071	114843.37	45.54	115115	114925.83	96.98

Table A.406: $j02459_7$: transRRGA – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10397	9195.7	489.36	14614	12896.87	648.47	15094	13970.67	632.15	15600	14442.3	505.04
		2op	114826	114818.27	1.46	114858	114827.07	15.38	115102	114859.63	62.2	115182	114935.83	99.18
	50	rnd	10266	9379.17	377.21	13899	12794.6	606.02	14543	13805.17	428.86	16310	14888.1	774.65
51	20	rnd	115038	114828.63	40.8	114857	114825.3	12.68	114895	114838.53	22.3	115150	114928.63	95.71
		2op	11419	10312.77	488.4	15707	14541.43	433.88	16716	15430.4	617.44	17338	16182.8	739.28
	50	rnd	114826	114818.27	1.46	114886	114829.03	18.54	114886	114847.67	20.02	115144	114962.93	102.59
	20	rnd	11011	10271.73	363.22	15538	14214.4	572.86	16852	15309.63	659.94	17842	16169.63	589.23
		2op	114826	114819.07	2.77	115038	114833.47	41.07	115038	114846.13	42	115175	114932.97	108.27

Table A.407: $j02459_7$: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	33821	32741.13	720.37	35375	33933.37	563.26	35318	34539.77	481.37	36170	35024.77	475.15
		2op	38409	38279.13	112.36	38420	38233.13	189.3	38422	38287	153.41	38425	38293.33	134.48
	50	rnd	34902	33590.3	613.23	35791	34355.7	527.74	36347	34847.27	520.06	36307	35310.93	617.43
51	20	rnd	38439	38266.7	151.18	38434	38244.53	200.16	38425	38233.63	165.2	38434	38301.83	135.98
		2op	33754	32390.4	656.4	34691	33303.1	571.58	34415	33567.7	583.65	35149	34094.17	646.06
	50	rnd	38409	38363.3	68.53	38434	38385.93	39.29	38430	38395.33	42.57	38435	38407.8	16.69
	20	rnd	35149	34083.23	727.88	35357	34274.3	527.17	35784	34489.73	576.27	36057	35153.57	492.48
		2op	38434	38372.9	86.18	38434	38386.53	45.76	38439	38396.3	55.84	38439	38408.27	39.76

Table A.408: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	34365	32827.27	668.6	35404	33940.3	616.23	35805	34613.2	542.4	35995	35039.33	499.32
		2op	38403	38209.5	187.81	38412	38167.03	206.8	38434	38224.13	186.28	38430	38227.5	175.37
	50	rnd	34541	33348.9	549.84	35201	34272.4	587.93	35697	34658	578.84	36263	35202.17	462.05
51	20	rnd	38434	38214.47	234.14	38423	38247.33	151.16	38410	38262.63	185.17	38419	38232.83	153.3
		2op	34387	32652.97	602.21	34535	33145.67	766.3	34966	33630.07	600.09	35117	34024.87	599.45
	50	rnd	38411	38361.17	52.41	38434	38396.07	28.21	38434	38412.33	21.65	38434	38415.2	15.48
	20	rnd	35212	34006.8	564.33	35148	34276.37	515.51	35572	34417.87	533.93	36094	34904.97	586.5
		2op	38415	38370.27	60.77	38434	38392.33	42.31	38435	38374.4	74.56	38439	38399.37	34.53

Table A.409: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	34908	32915.57	864.38	34146	33520.37	399.05	35286	33858.27	651.56	35343	34129.2	615.36
		2op	38422	38381.53	38	38434	38408.8	12.95	38439	38414.53	12.8	38439	38423.77	10.91
	50	rnd	34979	33731.7	584.09	35863	34355.4	595.29	35797	34928.6	467.56	35999	35129.27	460.41
51	20	rnd	38434	38393.17	27.65	38434	38408.33	24.03	38439	38422.23	14.09	38439	38425.4	15.35
		2op	34847	33201.4	790.78	34646	33527.17	590.64	35099	33756	593.66	35602	34396.57	563.81
	50	rnd	38434	38405.97	11.71	38434	38411.57	6.38	38439	38420.2	12.05	38439	38433.27	9.49
	20	rnd	35061	34026.07	587.7	36332	34639.47	708.62	35592	34911.1	393.23	36241	35350.8	534.36
		2op	38434	38413.3	10.49	38439	38430.93	11.04	38439	38435.6	7.59	38439	38438.13	1.78

Table A.410: *m15421_5*: basicRRGA+IM: 500 – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	34304	33212.73	520.27	36094	34739.3	564.8	36508	35063.67	695.5	36266	35518.07	469.68
		2op	38434	38401.33	20.45	38439	38427.97	10.01	38439	38433.2	7.02	38439	38434.57	3.36
	50	rnd	35628	34202.73	618.24	36313	35274.67	561.45	36506	35653.63	546.85	37132	36048.33	448.92
51	20	rnd	38434	38411.77	15.23	38439	38429.53	10.86	38439	38434.83	3.24	38439	38436.7	2.64
		2op	35446	33843.3	704.23	35851	34733.73	583.2	36096	34949.3	563.16	36278	35398.13	530.24
	50	rnd	38439	38414.53	13.7	38439	38435.73	6.49	38439	38437.53	2.13	38439	38433.53	7.14
	20	rnd	35568	34354.63	519.81	35998	35198.63	416.95	36541	35546.73	459.62	36476	35810.7	418.89
		2op	38439	38423.57	11.48	38439	38437.87	2.26	38439	38437.97	1.92	38439	38436.3	3

Table A.411: *m15421_5*: basicRRGA+IM: 5000 – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7931	6800.27	514.71	11159	9469.9	667.62	11275	10259.4	508.13	12764	11036.87	787.2
		2op	38409	38345.03	68	38409	38389.77	39.47	38414	38406.6	5.94	38414	38409.23	1.41
	50	rnd	7644	6663.73	652.41	11172	9754.47	655.17	11294	10536.3	462.37	12612	11130.77	746.2
51	20	rnd	38409	38321.83	78.04	38409	38393.17	29.6	38411	38405.87	6.69	38434	38410.53	4.87
		2op	8454	7461.2	533.43	12266	10381.13	680.8	11997	11168.77	551.55	12692	11647.33	536.59
	50	rnd	38409	38342.87	69.57	38414	38400.9	10.23	38409	38406.93	5.61	38414	38409.93	1.89
	20	rnd	8078	7476.13	453.76	11159	10261.77	439.16	13198	11214.13	645.36	13107	11746.27	623.24
		2op	38397	38329.4	75.59	38409	38398.13	9.73	38414	38407.83	4.3	38414	38409.83	1.9

Table A.412: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	8041	6798.77	586.17	11095	9646.47	516.84	11856	10448.27	700.18	12565	10991.17	688.71
		2op	38401	38300.23	77.4	38409	38390.87	28.97	38409	38405.4	6.9	38434	38408.57	20.93
	50	rnd	7895	6623.1	605.22	10571	9728.83	529.98	11923	10581.13	594.17	12333	11113	694.39
51	20	rnd	38404	38321.63	78.21	38414	38398.23	10.7	38414	38406.33	6.29	38434	38408.3	13.96
		2op	8842	7410.03	575.29	12093	10295.83	816.88	12630	10978	738.12	12703	11632.1	680.08
	50	rnd	38404	38321.93	74.98	38409	38401.9	9.95	38409	38407.4	4.11	38434	38410.6	5.3
	20	rnd	8149	7163.9	536.04	11510	10162.4	657.75	12001	10762.67	488.72	12633	11641.73	648.32
		2op	38404	38336.47	71.77	38410	38396.1	11.56	38414	38407.7	2.52	38414	38410	2.03

Table A.413: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38820	37830.63	683.24	40759	39550.2	604.52	41493	40415.77	492.73	42547	41071.37	652.52
		2op	47387	47198.17	207.92	47403	47317.27	100.73	47403	47319.13	135.01	47403	47351.13	127.14
	50	rnd	40204	38542.2	742.25	41275	39709.43	790.84	41494	40590.83	547.91	42685	41407.4	586.96
51	20	rnd	47403	47265.6	126.05	47403	47288.23	115.75	47403	47296.97	126.85	47403	47320.23	136.62
		2op	39356	37616.1	912.54	39861	38440.33	777.53	40276	38965.27	728.13	40862	39974.7	508.54
	50	rnd	47403	47283.9	81.45	47403	47316.3	97.31	47403	47377.87	38.43	47403	47389.4	19.07
	20	rnd	40277	39067.97	662.74	40828	39499.9	734.25	41244	39889.1	607.81	41918	40532.1	526.7
		2op	47403	47313.43	125.86	47403	47349.93	75.19	47403	47374.07	41.77	47403	47397.03	11.54

Table A.414: *m15421_6*: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	39508	37677.23	992.67	40903	39471.23	719.44	41618	40497.6	621.78	42235	41123.37	601.31
		2op	47387	47175.13	222.95	47403	47299.27	122.47	47403	47312.63	133.58	47403	47326.07	117.45
	50	rnd	40302	38582.9	800.82	41105	39849.93	587.97	42053	40633.4	650.25	42922	41378.33	598.27
51	20	rnd	47403	47171.27	270.46	47403	47250.33	167.81	47403	47331.27	121.32	47403	47305.83	121.84
		2op	39167	37635.13	710.24	40271	38346.7	844.21	40149	39059.3	598.73	41047	39933.5	714.9
	50	rnd	47387	47250.67	80.06	47403	47340.1	69.67	47403	47372.77	42.85	47403	47391.2	9.24
	20	rnd	39849	38708.17	635.84	40414	39461.83	623.36	41401	40154.23	585.93	42055	40628.2	711.84
		2op	47403	47305.47	158.87	47403	47325.2	97.21	47403	47384.17	31.05	47403	47391.17	12.76

Table A.415: *m15421_6*: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	39389	37548.7	739.1	40170	38507.37	845.04	40327	38755.63	810.28	40810	39205.53	786.74
		2op	47387	47258	72.39	47403	47343.17	65.8	47403	47378.7	38.61	47403	47398.2	7.46
	50	rnd	40420	38714.33	736.33	41176	39818.6	658.41	41391	39899.4	648.2	41775	40654.8	561.8
51	20	rnd	47403	47324.57	83.2	47403	47386.4	29.08	47403	47389.1	29.46	47403	47398.73	7.2
		2op	39687	38194.93	591.24	40462	38615.4	858.67	40192	38606	731.84	40314	38955.67	598.01
	50	rnd	47387	47289.5	73.74	47403	47368.87	52.03	47403	47392.33	7.67	47403	47400.03	6.15
	20	rnd	40622	39468.83	588.79	41114	40208.53	608.32	41314	40052.43	646.92	41912	40749.63	656.32
		2op	47403	47374.5	48.36	47403	47394.47	8.12	47403	47398.73	7.2	47403	47403	0

Table A.416: *m15421_6*: basicRRGA+IM: 500 – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	39174	38388.43	498.91	41182	40062.73	632.51	41843	40840.57	506.84	41833	40908.1	435.6
		2op	47403	47321.17	81.2	47403	47393.1	8.38	47403	47399.27	6.88	47403	47398	6.93
	50	rnd	40123	39071.23	572.49	42495	40655.47	617.57	42601	41622.93	527.39	43197	41926.07	559.47
51	20	rnd	47403	47387.63	23.76	47403	47398.73	7.2	47403	47401.93	4.06	47403	47402.87	0.57
		2op	40231	38861.9	833.56	41221	39817.27	526.87	41541	40384.27	604.33	41707	40753.93	497.81
	50	rnd	47403	47357.87	60.69	47403	47398.2	7.46	47403	47400.87	5.53	47403	47387.47	10.51
	20	rnd	40779	39661.53	678.86	41823	40852.6	572.71	42416	41260.97	605.96	43074	41745.37	537.04
		2op	47403	47390.07	29.63	47403	47401.93	4.06	47403	47403	0	47403	47399.4	5.79

Table A.417: *m15421_6*: basicRRGA+IM: 5000 – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6653	6012.83	391.81	9980	9014.43	515.82	10934	9724.37	577.36	12199	10375.73	710.48
		2op	47236	47181.93	21.41	47387	47205.1	46.93	47387	47242	54.08	47403	47317.2	75.72
	50	rnd	6638	5909.03	403.3	10117	8946.27	573.54	11022	9638.7	659.48	11205	10338.57	523.51
51	20	rnd	47263	47178.77	19.6	47323	47195.7	37.43	47386	47240.07	60.34	47387	47309.4	71.01
		2op	7328	6709.17	411.68	11101	9799.4	593.02	11803	10695.97	471.08	12365	11307.67	512.81
	50	rnd	47259	47180.57	21.61	47387	47216.57	49.41	47387	47244.2	60.07	47403	47332.5	72.48
	20	rnd	7098	6541.3	281.46	10908	9715.4	561.57	11722	10477.7	555.72	11801	10908.63	547.71
		2op	47236	47180	18.96	47322	47203.63	37.59	47387	47238.6	51.33	47402	47313.03	70.92

Table A.418: *m15421_6*: transRRGA – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6872	5981.4	441.8	9850	8951.07	467.67	10885	9914.27	475.27	11238	10241.57	535.61
		2op	47238	47180.27	19.08	47316	47208.27	37.45	47387	47253.43	56.84	47403	47315.07	75.75
	50	rnd	6635	5939.6	464.52	9725	8961.8	384.43	11165	9853.77	575.48	10961	10032.8	532.8
51	20	rnd	47238	47177.23	14.64	47259	47207.43	31.91	47387	47262.07	59.87	47403	47318.07	75.62
		2op	7266	6662.9	451.18	10379	9789.07	397.89	11602	10468.53	534.47	11606	10800.43	554.16
	50	rnd	47236	47177.93	15.84	47323	47204.17	38.27	47387	47239.37	49.8	47387	47268.87	57.83
	20	rnd	7365	6559.3	339.5	10513	9642.6	430.36	11172	10422.67	457.48	12580	11066.7	596.83
		2op	47238	47175.3	11.86	47323	47201.77	39.55	47384	47223.33	41.65	47403	47303.73	71.08

Table A.419: *m15421_6*: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46314	44009.7	814.4	47617	46257.4	673.47	49022	47368.2	712.39	49246	48091.2	618.42
		2op	54742	54585.83	148.79	54741	54594.83	154.14	54733	54640.17	74.63	54742	54668.67	54.1
	50	rnd	45937	44674.3	970.7	48723	46467.3	917.19	48934	47298.1	736.04	49328	48088.53	499.34
51	20	rnd	54738	54539.03	177.21	54750	54562.5	138.47	54742	54631.63	100.35	54726	54601.5	209.64
		2op	45801	43637.83	920.67	46422	45213.17	766.3	47781	45772.8	705.78	47731	46621.53	592.91
	50	rnd	54730	54673.53	54.93	54742	54667.07	77.75	54742	54694.93	49.31	54750	54723.57	19.3
	20	rnd	47043	45526.23	843.94	48423	46237.93	774.29	48190	47011.63	739.46	48448	47462.97	464.67
		2op	54741	54675.07	38.14	54751	54687.8	47.05	54742	54705.67	43.71	54735	54690.23	37.01

Table A.420: $m15421_7$: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	45592	43927.17	787.87	48002	46432.37	700.23	48602	47353.3	570.15	49734	48246.47	603.93
		2op	54704	54550.27	147.45	54732	54558.87	173.69	54742	54643.53	77.07	54735	54666.6	48.16
	50	rnd	46144	44668.67	650.25	47207	46291.03	617.73	48513	47532.13	567.11	49616	48254.63	604.22
51	20	rnd	54712	54540.47	135.55	54738	54644.37	70.2	54747	54649.1	84.51	54750	54677.63	45.18
		2op	45543	43686.47	957.84	46725	45283.47	799.21	47688	45913.63	816.29	47855	46606.5	685.76
	50	rnd	54742	54661.17	65.21	54738	54694.67	36.06	54742	54704.3	34.18	54742	54707.5	28.64
	20	rnd	47044	45235.3	843.59	47554	46305.1	775.93	48038	46783.43	669.41	49370	47396.2	723.87
		2op	54742	54677.67	50.34	54742	54675.3	50.11	54743	54688.17	48.56	54751	54701.57	40.18

Table A.421: $m15421_7$: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46368	44050.63	966.14	46557	44730.63	977.71	46988	45490.13	706.22	47790	45875.3	841.93
		2op	54742	54703.57	30.44	54751	54725.93	19.12	54751	54731	19.3	54751	54739.93	6.53
	50	rnd	46907	45168.03	856.35	47557	46204.17	598.68	47623	46649.53	515.77	48444	47333.63	541.13
51	20	rnd	54750	54706.27	38.92	54751	54728.2	15.6	54751	54735.3	12.99	54765	54742.9	7.27
		2op	46706	44630.37	816.49	47161	45243.37	803.92	47201	45241.5	835.69	47001	45881.17	746.06
	50	rnd	54742	54731.13	17.49	54751	54742.43	2.45	54751	54743.2	3.11	54751	54745.57	4.45
	20	rnd	47155	45998.27	696.82	48302	46401.47	955.19	48118	46859.8	666.85	48370	47281.53	592.9
		2op	54742	54734.47	15.5	54751	54743.6	6.16	54751	54745.6	4.48	54751	54748	4.32

Table A.422: $m15421_7$: basicRRGA+IM: 500 – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46188	44563.47	843.36	48110	46679.7	738.19	49018	47264.13	656.33	48510	47700.07	514.78
		2op	54751	54716.1	27.52	54750	54737.23	11.31	54751	54739.73	14.77	54751	54741.8	5.83
	50	rnd	47304	45820.27	715.99	48547	47533.5	602.31	49892	48531.37	562.83	49889	48955.77	488.44
51	20	rnd	47304	54720.9	29.41	54751	54742.13	6.8	54751	54744.4	5.89	54760	54745.63	5.95
		2op	48391	45478.83	982.37	47917	46831.2	646.7	48731	47426.8	693.08	48804	47651.93	612.26
	50	rnd	54751	54741.2	6.07	54751	54745.9	4.54	54751	54749.2	3.66	54742	54725.33	17.7
	20	rnd	47175	46327.93	429.63	48823	47779.07	415.42	49689	48307.03	631.85	50060	48585.6	556.75
		2op	54751	54741.2	7.58	54751	54747.1	4.54	54766	54750.6	4	54750	54734.4	9.98

Table A.423: *m15421_7*: basicRRGA+IM: 5000 – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7884	6679.3	481.47	12431	10703.7	730.3	13519	11652.2	694.63	13574	12620.07	480.03
		2op	54742	54694.1	16.97	54742	54716.63	20.45	54750	54738.07	11.99	54751	54742.6	2.28
	50	rnd	7705	6851.8	517.51	11495	10540.13	600.29	12628	11421.57	636.59	13804	12250.2	789.36
51	20	rnd	54741	54695.27	17.75	54742	54723.93	20.44	54742	54739	9.94	54751	54743.5	3.41
		2op	8832	7660.97	495.89	13101	11901.2	533.55	14038	12788.63	595.8	14815	13231.7	761.28
	50	rnd	54742	54702.23	20.95	54742	54721.1	20.85	54742	54737.87	12.06	54751	54741.5	7.75
	20	rnd	8284	7410.83	417.7	12585	11413.43	707.84	13568	12477.2	525.56	14703	13258.73	626.32
		2op	54740	54691.77	15.01	54742	54726.53	20.01	54742	54732.03	16.73	54751	54743.1	8.58

Table A.424: *m15421_7*: transRRGA – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	8130	6600.43	585.56	11793	10371.6	759.18	13319	11667.13	881.8	13721	12193.5	680.43
		2op	54742	54690.7	19	54742	54713.87	19.5	54742	54729.67	18.36	54751	54743.33	3.2
	50	rnd	8030	6896.03	519.18	12346	10423.73	847.57	12870	11362.5	625.94	13472	12366.7	547.47
51	20	rnd	54729	54688.33	13.76	54742	54719.9	21.59	54742	54733.47	15.8	54751	54741.27	7.58
		2op	8682	7376.77	551.23	12378	11396.57	469.4	13835	12701.53	531.82	14281	13166.2	508.31
	50	rnd	54741	54692.5	16.68	54742	54722.57	20.2	54742	54736.63	13.52	54751	54742.6	2.28
	20	rnd	8211	7361.37	423.77	12420	11309.17	640.7	13609	12507.2	710.4	14070	13217.77	551.43
		2op	54742	54691.93	17.29	54742	54719.17	21.5	54742	54739	9.93	54751	54744.07	3.89

Table A.425: *m15421_7*: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10858	10341.37	254.25	11025	10606.37	227.68	11225	10710.03	221.49	11154	10843.27	165.31
		2op	11109	10866.23	172.74	11305	10998.37	139.76	11305	11037.6	155.44	11305	11036.07	134.52
	50	rnd	11152	10540.67	271.64	11103	10753.7	220.24	11216	10865.87	209.33	11285	10968.1	180.46
51	20	rnd	11305	10914.03	183.09	11305	10994.77	151.64	11256	11072.53	94.45	11305	11136.87	134.97
		2op	10999	10298.3	312.99	11314	10614.53	264.64	11024	10617.8	223.7	11057	10757.07	202.74
	50	rnd	11109	10991.47	101.08	11109	11069.57	48.51	11305	11101.67	77.27	11305	11114.5	76.05
	20	rnd	11003	10641.1	216.83	11115	10661.63	245.9	11304	10876.97	227.09	11247	10927.97	180.39
		2op	11109	10996.2	113.48	11373	11091	104.53	11305	11142.57	106	11394	11169.7	118.04

Table A.426: *x60189_4*: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11062	10377.73	294.35	11198	10728.5	229.73	11182	10735.27	217.23	11138	10875.1	195.6
		2op	11256	10789.37	223.34	11305	11010.57	140.85	11256	11028.33	127.49	11373	11099.8	157.17
	50	rnd	11128	10483	314.03	11285	10745.27	190.71	11245	10874.37	175.2	11181	10970.47	139.38
51	20	rnd	11256	10922.93	169.45	11256	11008.37	174.59	11305	11085.7	91.25	11394	11115.3	126.48
		2op	10957	10415.13	271.04	10975	10478.3	250.53	11007	10662.4	205.31	11411	10793.87	227.01
	50	rnd	11109	11037.7	45.22	11209	11034.3	84.24	11256	11081.03	54.47	11273	11160.2	82.29
	20	rnd	11170	10593.27	219.36	11195	10723.47	241.73	11181	10837.53	198.02	11270	10934.13	157.96
		2op	11256	11031.47	114.45	11256	11091.4	97.19	11373	11103.97	138.39	11305	11179.9	83.39

Table A.427: *x60189_4*: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10947	10410.77	277.53	11214	10664.37	251.71	11304	10767.57	259.8	11226	10905.8	187.83
		2op	11109	11057.37	65.61	11213	11108.7	26.08	11305	11118.77	53.88	11373	11179.87	88.66
	50	rnd	10964	10588.43	203.24	11215	10874.5	185.95	11310	10904.53	193.95	11369	11067.93	156.01
51	20	rnd	11209	11052.63	75.97	11373	11137.83	89.2	11305	11190.47	79.75	11394	11244.53	80.74
		2op	11043	10571.57	218.3	11062	10697.57	202.16	11308	10831.2	213.97	11280	10893.5	225.3
	50	rnd	11109	11079.87	42.68	11109	11109	0	11305	11138.4	67.6	11394	11243.97	74.24
	20	rnd	11195	10675.1	249.81	11183	10858.53	220.81	11226	10908.8	181.11	11226	11040.13	155.68
		2op	11151	11098.13	30.99	11305	11133.27	59.93	11373	11207.83	92.75	11373	11281.37	46.33

Table A.428: *x60189_4*: basicRRGA+IM: 500 – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10941	10447.13	216.73	11100	10843.03	137.4	11287	10911.83	196.53	11393	11029.53	177.11
		2op	11109	11065.63	49.38	11305	11154.03	89.23	11373	11205.17	85.79	11373	11256.53	66.25
	50	rnd	11102	10640.9	229.49	11308	10945.13	170.35	11343	11038	170.88	11411	11116.2	144.32
51	20	rnd	11137	10610.9	235.75	11242	10827.3	183.88	11235	10947.83	179.88	11309	10988.73	188.91
		2op	11109	11093.67	34.87	11305	11118.73	39.3	11305	11160.5	77.83	11305	11257.77	59.69
	50	rnd	11121	10747.67	176.49	11280	10993.57	163.08	11411	11102.7	152.33	11411	11116.67	124.54
		2op	11151	11110.4	7.67	11373	11205.47	94.95	11394	11265.77	81.62	11373	11296.23	49.48

Table A.429: $x60189_4$: basicRRGA+IM: 5000 – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7157	6468.47	454.26	8182	7543.87	345.35	8415	7882.37	298.21	9061	8344.5	334.87
		2op	11095	11011.63	35.49	11109	11060.3	62.57	11109	11102.6	23.28	11109	11105.73	16.77
	50	rnd	7296	6445.33	437.61	8388	7605.67	391.83	8953	7929.53	389.53	9118	8395.6	382.31
51	20	rnd	11107	11028.73	35.28	11109	11064.53	46.7	11109	11099.73	28.05	11305	11120.93	44.42
		2op	11107	11025.57	35.64	11109	11061.03	51.22	11109	11105.87	16.79	11109	11108.73	0.69
	50	rnd	7364	6637.17	399.6	8232	7573.07	347.03	8620	7925.4	339.21	9024	8379.17	287.82
		2op	11107	11034.27	40.65	11109	11076.6	43.66	11109	11105.73	16.77	11109	11108.87	0.51

Table A.430: $x60189_4$: transRRGA – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7355	6538.93	383.13	8232	7598.87	419.51	9026	7921.8	453.88	8985	8394.63	328.02
		2op	11107	11036.57	44.6	11109	11045.2	60.15	11109	11095	32.22	11151	11112.53	11.79
	50	rnd	7301	6556.87	416.32	8196	7550.1	309.86	8425	7965.33	295.18	9121	8374.27	373.98
51	20	rnd	11107	11041.6	45	11109	11070.6	45.35	11109	11095.2	31.69	11109	11108.03	3.85
		2op	7460	6482.07	472.24	8282	7593.43	358.94	8590	7986.67	312.48	9128	8517.1	299.28
	50	rnd	11107	11028.53	52.58	11109	11072.2	45.84	11109	11098.17	33.6	11109	11108.93	0.37
		2op	7435	6601.13	373.78	8369	7638.67	337.28	8513	7763.8	415.99	9172	8310.63	331.87
		2op	11107	11034.47	40.41	11109	11085.93	39.65	11109	11094.6	32.47	11256	11106.33	49.22

Table A.431: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13461	12870.67	318.43	13715	13240.63	200.8	13940	13357.07	228.86	13834	13460.83	221.06
		2op	13930	13772.43	97.9	13930	13822.33	69	14064	13850.13	80.96	13990	13850.13	87.42
	50	rnd	13487	12983.17	287.34	13723	13291.63	175.19	13831	13436.9	159.5	13873	13551.7	128.04
51	20	rnd	13351	12867.2	274.51	13358	13032.43	212.8	13729	13140.13	208.26	13731	13297.5	272.57
		2op	13835	13758.77	44.91	13899	13835.2	38.43	13967	13858.63	37.2	13967	13866.9	40.59
	50	rnd	13622	13191.83	216.82	13759	13313.47	249.6	13761	13408.83	206.05	14010	13540.47	217.28
			13967	13793.7	73.31	13967	13856.47	50.94	13967	13867.13	30.91	13998	13890.7	55.56

Table A.432: *x60189_5*: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13531	12855.1	265.34	13863	13217.63	229.21	13620	13311.67	177.67	13658	13389	187.84
		2op	13874	13741.03	104.67	14038	13836.3	82.6	14008	13821.73	101.56	13967	13833.77	79.59
	50	rnd	13575	13050.7	289.74	13777	13288.77	223.68	13925	13507.57	159.96	13938	13562.87	190.55
51	20	rnd	13967	13738.83	130.56	14038	13826.37	104.34	13996	13877.87	69.45	14038	13899.1	78.61
		2op	13301	12891.17	265.67	13530	13094.83	258.11	13655	13268.17	201.62	13819	13367.3	232.43
	50	rnd	13873	13754.03	60.42	13967	13835.3	42.34	13967	13851.33	37.3	13967	13858.07	32.65
			13553	12976.67	304.53	13580	13221.5	211.62	13745	13336.73	211.72	13746	13455.27	178.94
			13873	13787.9	70.84	13967	13855.3	35.02	13967	13870.5	30.79	13970	13891.5	45.14

Table A.433: *x60189_5*: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13542	12967.13	235.3	13698	13305.63	212.5	13710	13350.17	227.97	13954	13513.4	199.59
		2op	13967	13800	66	13967	13859	26.93	13967	13873.73	36.72	13967	13892.43	38.55
	50	rnd	14077	13167.1	260.85	13796	13357.37	200.85	13762	13510.57	169.45	13836	13542.9	181.35
51	20	rnd	13967	13820.63	70.23	13967	13863.97	33.5	14064	13880.6	46.66	14038	13934.77	55.44
		2op	13810	13215.73	238.59	13608	13273.53	194.48	13810	13396.2	200.15	13744	13406.57	155.05
	50	rnd	13874	13812.9	60	13878	13859.33	17.44	13899	13862.1	18.16	14064	13898.17	51.38
			13740	13251.3	237.07	13829	13401.37	192.64	14038	13524.63	189.43	13948	13613.17	204.15
			13967	13850.97	42.25	13967	13874.43	23.99	13967	13900.87	42.03	14064	13941.87	59.95

Table A.434: *x60189_5*: basicRRGA+IM: 500 – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13510	13092.03	282.15	13819	13438.03	235.72	13985	13540.37	210.08	14055	13590.73	214.32
		2op	13874	13831.87	39.51	13967	13874.7	34.38	13968	13904.87	48.08	14064	13944.03	55.72
	50	rnd	13598	13143.53	250.01	13813	13508.1	171.46	14023	13598.33	168.99	14038	13706.37	193.89
51	20	rnd	13967	13856.57	48.79	13970	13906	47.21	14064	13933.47	57.44	14064	13945.1	51.4
		2op	13828	13128.87	278.36	13761	13378	214.98	13798	13488.8	174.86	14045	13629.5	177.45
	50	rnd	13878	13835.1	44.88	13967	13864.1	24.74	13967	13878.73	29.4	13967	13906.93	44.38
	20	rnd	13657	13333.6	174.97	13812	13527.57	143.07	14133	13633.4	185.6	14018	13736.67	114.85
		2op	13967	13856.8	35.75	13967	13893.2	38.53	13967	13918.33	45.05	14058	13951.27	51.66

Table A.435: $x60189_5$: basicRRGA+IM: 5000 – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	8398	7517.2	484.28	9520	8930.77	304.68	9931	9307.07	346.81	10284	9732.9	320.66
		2op	13819	13733.27	19.96	13874	13764.53	33.38	13874	13789.37	51.34	13878	13854.2	41.34
	50	rnd	8516	7542.57	595.02	9751	9040.97	385.7	10062	9314.9	398.06	10456	9856.73	279.43
51	20	rnd	13764	13738.13	14.12	13874	13773.67	45.38	13874	13783.87	48.5	13883	13832.27	53.28
		2op	8588	7714.1	368.06	9815	9030.1	293.23	10136	9390.47	325.33	10593	9766.67	384.5
	50	rnd	13774	13734.53	15.25	13874	13765.63	36.15	13878	13809.4	56.91	13878	13841.7	51.05
	20	rnd	8440	7734.6	394.46	9765	8937.47	482.35	9928	9395.73	371.15	10469	9679.87	365.78
		2op	13817	13739.13	23.81	13874	13761.37	32.41	13876	13782.2	48.57	13878	13828.7	54.4

Table A.436: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	8641	7544.7	397.57	9676	9000.7	302.41	10065	9403.57	432.29	10296	9782.8	397.07
		2op	13817	13736.77	27.11	13872	13771.6	42.41	13874	13807.83	58.46	13878	13841.2	50.02
	50	rnd	8265	7558.2	507.72	9957	9015.67	462.84	10243	9416.87	425.25	10424	9774.4	264.98
51	20	rnd	13819	13750.97	34.04	13869	13769.7	35.09	13878	13791.23	48.97	13883	13863.27	29.83
		2op	8152	7661.07	349.08	9717	9068.63	376.82	9969	9344.07	315.72	10422	9744.67	316.69
	50	rnd	13874	13744.23	31.15	13872	13764.47	30.37	13878	13815.5	57.23	13878	13856.57	39.94
	20	rnd	8861	7810.3	482.14	9460	8950.8	280.44	10113	9255.7	430.91	10438	9743.23	389.51
		2op	13817	13735.5	20.2	13874	13760.3	32.22	13874	13792.73	53.23	13878	13837.3	52.8

Table A.437: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17139	16193.2	431.11	17171	16419.93	384.31	17485	16753.17	374.15	17229	16792.93	250.27
		2op	18017	17920.73	182.22	18017	17975.97	68.09	18017	17989.8	53.79	18017	17981.9	76.94
	50	rnd	17171	16330.83	346.12	17418	16809.57	264.19	17543	16963.23	315.84	17513	16999.43	250.59
		2op	18017	17928.83	113.44	18017	17986.37	86.11	18017	17990.17	72.65	18017	17997.9	42.02
51	20	rnd	17150	16219.97	405.49	17254	16347	357.33	16978	16467.23	264.54	17150	16556.3	274.57
		2op	18017	18009.97	21.98	18017	18014.07	9.31	18017	18008.17	26.3	18017	18017	0
	50	rnd	17071	16188.63	326.13	17271	16635.13	290.43	17394	16709.33	282.62	17426	16869.33	313.35
		2op	18017	18001.37	38.19	18017	17979.4	107.13	18017	18016.8	1.1	18017	18017	0

Table A.438: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16850	16209.53	375.85	17578	16585.67	340.02	17311	16696.47	267.53	17478	16887.67	270.02
		2op	18017	17948.77	118.58	18017	17915.7	136.46	18017	17965.43	106.65	18017	17973.97	70.72
	50	rnd	16848	16280.2	388.02	17266	16681.33	252.1	17355	16823.07	232.48	17471	16981.13	279.64
		2op	18017	17932.5	157.51	18017	17976.63	100.01	18017	17980.8	74.01	18017	17985.17	82.76
51	20	rnd	16977	16115.77	404.3	16997	16373.1	370.76	17177	16435.37	324.18	17324	16567.03	370.33
		2op	18017	17995.13	74.97	18017	18008.23	16.35	18017	18015.23	7.08	18017	18017	0
	50	rnd	17065	16323.97	346.47	17417	16538.33	383.31	17322	16751.33	302.41	17339	16919.93	281.86
		2op	18017	17988.37	51.91	18017	18003.33	35.09	18017	18017	0	18017	18013.9	16.98

Table A.439: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16899	16264.27	399.66	17070	16472.53	327.07	17239	16550.7	347.17	17352	16722.3	305.05
		2op	18017	18016.4	3.29	18017	18017	0	18017	18017	0	18017	18017	0
	50	rnd	17306	16384.6	486.95	17414	16780.07	293.99	17378	16898.07	268.1	17440	16980.07	270.41
			2op	18017	0	18017	18017	0	18017	18017	0	18017	18017	0
51	20	rnd	17200	16449.37	360.13	17234	16643.63	315.47	17316	16628.27	365.09	17287	16813.97	228.2
		2op	18017	18017	0	18017	18017	0	18017	18017	0	18017	18017	0
	50	rnd	16965	16435.3	353.36	17556	16817.6	260.8	17399	16795.67	321.96	17457	17037.53	245.68
			2op	18017	0	18017	18017	0	18017	18017	0	18017	18017	0

Table A.440: $x60189_6$: basicRRGA+IM: 500 – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17035	16343.17	367.25	17399	16836.67	269.48	17480	17005.97	215.05	17664	17081.2	244.58
		2op	18017	18017	0	18017	18017	0	18017	18017	0	18017	18017	0
	50	rnd	17308	16558.57	317.22	17680	17049.1	292.95	17598	17091.47	254.46	17824	17238.67	233.17
		2op	18017	18017	0	18017	18016.73	1.46	18017	18017	0	18017	18017	0
51	20	rnd	16847	16400.97	265.54	17407	16585.67	325.89	17439	16825.97	293.17	17374	16993.53	217.43
		2op	18017	18017	0	18017	18017	0	18017	18017	0	18017	18017	0
	50	rnd	17170	16644.6	228.2	17533	16998.87	267.52	17733	17081.4	257.05	17556	17189.13	199.68
		2op	18017	18017	0	18017	18017	0	18017	18017	0	18017	18017	0

Table A.441: $x60189_6$: basicRRGA+IM: 5000 – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	9514	8700.53	401.98	11818	10723.6	481.16	12256	11247.7	441.61	12522	11638.33	478.72
		2op	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18017	18017	0
	50	rnd	10199	8572.23	583.82	11789	10612.93	493.23	12116	11064.67	469.11	12689	11719.2	486.32
		2op	18017	18005.5	11.7	18017	18016.2	4.2	18017	18017	0	18017	18017	0
51	20	rnd	9341	8808.93	305.36	11936	10765.2	523.38	11961	11193.6	419.13	12897	11744.1	494.01
		2op	18017	18009.33	11.03	18017	18016.9	0.31	18017	18017	0	18017	18017	0
	50	rnd	9819	8850.3	442.85	11351	10401.97	391.96	12099	11042.8	488.26	12617	11701.17	410.32
		2op	18017	18008.57	11.27	18017	18016.23	4.2	18017	18017	0	18017	18017	0

Table A.442: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	9480	8608.37	410.79	11595	10687.2	440.26	11778	11212.6	350.98	12775	11750.63	498.48
		2op	18017	18003	13.5	18017	18016.97	0.18	18017	18017	0	18017	18017	0
	50	rnd	9499	8658.37	446.99	11268	10516.13	398.4	11899	11112.5	401.04	12489	11698.83	422.95
		2op	18017	18007.8	11.46	18017	18017	0	18017	18017	0	18017	18017	0
51	20	rnd	9743	8799.67	387.67	12023	10720.77	549.31	11952	11251.27	411.93	12773	11860	425.42
		2op	18017	18010.1	10.72	18017	18017	0	18017	18017	0	18017	18017	0
	50	rnd	9549	8781.57	437.78	11635	10751.27	514.23	11908	11141	395.69	12358	11599.97	428.86
		2op	18017	18002.43	11.27	18017	18016.23	4.2	18017	18017	0	18017	18017	0

Table A.443: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19933	18949.6	421.78	20245	19518.4	265.24	20234	19649.7	287.14	20401	19890.63	272.2
		2op	20939	20765.77	104.6	20991	20793.77	106.57	20957	20793.3	91.59	21005	20839.7	59.75
	50	rnd	20092	19180.37	362.41	20316	19668.6	275.87	20286	19786.47	264.15	20635	20029	254.01
51	20	rnd	20889	20750.63	108.45	20951	20809.3	71.23	21042	20867.03	72.65	20997	20804.73	124.93
		2op	19918	19057.17	376.02	20373	19211.33	457.58	20447	19467.33	339.62	20283	19662.13	323.06
	50	rnd	20829	20770.7	94.29	20829	20816.83	28.28	20944	20819.77	35.26	20889	20833.3	19.86
	20	rnd	19721	19251.93	321.49	20245	19565.1	348.34	20320	19803.9	239.76	20547	20043.63	234.65
		2op	20892	20809.77	39.4	20836	20814.53	31.27	20921	20824.73	58.45	21057	20883	76.23

Table A.444: $x60189_7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19947	19095.03	408.29	20182	19492.17	323.09	20312	19747.47	233.94	20584	19948.5	293.31
		2op	20829	20733.57	111.95	20889	20757.37	85.55	20999	20784.77	90.27	21057	20833.4	89.81
	50	rnd	20164	19194.83	436.84	20322	19655.97	274.79	20396	19776.57	279.82	20482	19915.13	316.85
51	20	rnd	20889	20738.53	113.31	21051	20783.73	117.74	21007	20834.77	100.9	21059	20868.33	102.96
		2op	20148	19092.2	397.89	20006	19218.23	315.71	20015	19297.93	334.03	20204	19658.87	292.32
	50	rnd	20829	20805.57	37.38	20829	20811.43	25.62	20889	20831	20.53	20933	20841.37	36.15
	20	rnd	19850	19160.8	389.72	20107	19567	306.94	20302	19632.97	309.07	20630	19846.73	327.13
		2op	20829	20769.5	78.12	20889	20813.93	35.01	20967	20839.07	42.22	20997	20863.3	58.45

Table A.445: $x60189_7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19971	19169.83	383.28	20176	19528.97	325.45	20218	19638.13	263.25	20161	19719.43	264.08
		2op	20829	20822.97	18.44	20944	20830.7	23.02	20938	20831.73	23.22	20997	20878.4	60.48
	50	rnd	20016	19273.97	314.99	20639	19815.3	326.58	20550	19960.6	234.46	20710	20027.83	265.31
51	20	rnd	20889	20809.03	41.19	20997	20838.63	37.04	20999	20856.2	50.09	21059	20938.07	71.44
		2op	20061	19334.43	334.03	20258	19562.1	372.72	20356	19676.1	325.56	20536	19823.47	278.79
	50	rnd	20829	20829	0	20944	20832.83	21	20889	20831	10.95	20997	20884.87	59.6
	20	rnd	20053	19558.37	242.36	20312	19757.87	290.96	20516	19937.23	269.33	20623	20170.23	257.27
		2op	20847	20829.6	3.29	20944	20836.83	25.31	21057	20877.73	71.37	21059	20984.03	57.53

Table A.446: $x60189_7$: basicRRGA+IM: 500 – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	20102	19343.07	325.06	20356	19727.7	325.14	20377	19882.77	247.77	20478	20113.2	251.75
		2op	20829	20826.3	12.61	21051	20857.2	57.56	21057	20898.73	68.25	21059	20964.8	76.75
	50	rnd	20057	19419.17	334.79	20565	20021.87	280.12	20569	20107	205.16	20734	20286.03	246.57
51	20	rnd	20951	20837.67	29.33	21059	20890.77	65.26	21057	20953.57	83.7	21059	21016.6	46.68
		2op	20509	19469.9	409.61	20588	19827.63	251.9	20588	19982.23	254.3	20731	20193.27	269.02
	50	rnd	20829	20829	0	20889	20833	15.22	21051	20851.13	49.42	21059	20938	70.28
	20	rnd	20249	19540.57	288.88	20731	20030.07	287.14	20468	20111.3	218.42	20846	20196.63	262.38
		2op	20889	20831	10.95	20991	20868.5	46.6	21057	20908.17	65.73	21059	20981.97	68.16

Table A.447: $x60189_7$: basicRRGA+IM: 5000 – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11751	10522.43	543.34	13645	12776.83	342.33	14345	13379.7	460.96	14817	13920.9	424.48
		2op	20829	20829	0	20829	20827.27	9.49	20829	20827.93	5.84	20829	20829	0
	50	rnd	11241	10648.43	318.99	13482	12683.83	395.31	14482	13414.07	512.22	14818	13997.37	383.46
51	20	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	11728	10943.1	357.72	14303	12963.7	570.25	14255	13411.47	439.45	14760	14048.23	429.81
	50	rnd	20829	20829	0	20829	20829	0	20829	20826.8	12.05	20829	20829	0
	20	rnd	11503	10712.2	439.41	13589	12694.83	386.28	14584	13300.37	519.68	15000	13999.73	474.88
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.448: $x60189_7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11605	10455.2	534.67	13785	12839.57	583.16	13872	13144.77	471.33	14682	14001.33	475
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	11515	10657.7	513.41	14312	12853.67	529.71	14908	13533.1	584.93	14641	14046.87	470.35
51	20	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	12045	10763.2	589.71	13839	12848.23	397.71	14538	13549.6	565.07	14681	14011.67	341.94
	50	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	20	rnd	11346	10757.77	401.36	13646	12785.73	437.38	14143	13272.3	456.2	15013	13928.23	471.83
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.449: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	592	587.03	4.13	592	589.17	2.05	594	590.53	2.39	595	590.6	2.49
		2op	595	588.57	4.19	595	590.83	3.6	595	591.6	2.08	595	592.3	1.91
	50	rnd	593	586.3	3.72	595	591.27	2.68	595	591.5	2.16	595	591.73	1.78
		2op	596	589.63	4.29	595	592.17	2.17	596	592.8	1.75	596	593.23	1.63
51	20	rnd	593	586	3.55	595	589.93	3.08	595	590.9	2.86	595	591.27	1.93
		2op	595	590.7	2.81	594	590.53	2.01	596	591.9	2.81	596	593.9	1.6
	50	rnd	595	589.13	2.53	595	591.6	2.51	595	592.33	1.77	595	592.17	1.88
		2op	595	591.37	3.09	596	593.4	1.79	596	593.93	1.46	596	594.13	1.07

Table A.450: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	594	585.23	4.26	595	588.13	2.46	596	590.57	2.43	595	590.9	2.51
		2op	596	588.87	4.16	595	590.67	3.06	595	591.77	2.37	596	591.8	2.31
	50	rnd	595	586.57	4.19	594	590.27	2.38	595	592.17	1.91	595	592.37	1.92
		2op	595	589.97	2.76	596	592.63	2.3	595	592.2	1.9	595	592.93	1.89
51	20	rnd	595	585.3	5.26	593	588.8	2.64	595	590.03	2.81	596	591.4	2.5
		2op	596	590.93	3.82	596	592.7	2.29	596	592.17	2.73	595	593.4	1.9
	50	rnd	594	588.23	3.09	595	591.13	2.26	595	592	2.08	596	593.17	1.64
		2op	596	591.87	2.8	596	592.97	1.75	596	593.27	1.8	595	593.47	1.72

Table A.451: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	586.97	3.92	595	591	2.36	596	591.8	2.41	596	592.57	1.83
		2op	595	591.57	3.04	595	593.57	1.92	596	593.8	2.02	596	594.17	1.44
	50	rnd	594	587.87	3.03	596	592.13	2.56	595	593.1	1.69	596	593.2	1.79
		2op	596	592.9	2.47	595	593.67	1.75	596	594.07	1.39	596	594.4	1.07
51	20	rnd	595	589.1	3.68	595	591.63	2.13	596	593.13	2	596	593.47	1.68
		2op	596	594.23	1.14	596	595.07	0.45	596	595.17	0.38	596	595.2	0.41
	50	rnd	595	590.67	2.58	596	593.4	1.54	596	594.43	1.41	596	594.6	1.07
		2op	596	594.57	1.17	596	595.1	0.55	596	595.1	0.84	596	595.37	0.49

Table A.452: f_{25_305} : basicRRGA+IM: 500 – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	594	586.97	3.72	595	592.37	2.3	596	593	1.84	596	592.77	1.85
		2op	596	592.1	2.86	596	594.3	1.44	596	594.13	1.5	596	595	0.69
	50	rnd	594	588.8	3.6	596	593.2	1.61	596	592.83	1.62	596	594.07	1.2
51	20	rnd	596	593.33	2.17	596	594.63	0.76	596	594.57	1.01	596	594.83	0.79
		2op	596	590.43	3.37	596	592.27	1.87	596	594.2	1.27	596	593.7	1.37
	50	rnd	596	594.47	0.86	596	595.13	0.57	596	595.13	0.35	596	595.2	0.48
	20	rnd	595	590.93	2.3	596	594.03	1.52	596	594.43	1.01	595	594.1	0.96
		2op	596	594.27	1.36	596	594.9	0.66	596	595.07	0.37	596	595.27	0.52

Table A.453: f_{25_305} : basicRRGA+IM: 5000 – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	558	491.5	23.37	569	529.57	27.11	585	542.33	28.27	582	555.9	22.66
		2op	595	591.67	2.11	595	593.1	2.48	595	593.93	1.55	595	593.93	1.53
	50	rnd	567	499.07	20.98	569	535.93	25.12	581	542.17	29.81	588	563.83	18.68
51	20	rnd	595	591.73	1.8	595	594.13	0.94	595	594.07	1.34	595	594.57	0.73
		2op	544	492.87	19.69	571	529.5	25.6	576	538.67	27.56	578	562.4	13.21
	50	rnd	594	590.9	2.25	595	593.47	1.78	595	594.13	1.01	595	594.3	0.7
	20	rnd	554	497.97	23.8	569	526.13	26.57	582	541.83	26.11	589	556.5	21.54
		2op	594	591.07	1.84	595	594.17	0.91	595	594.23	1.25	595	594.6	0.97

Table A.454: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	556	495.27	31.16	572	523.17	25.73	574	535.67	24.7	585	559.77	22.59
		2op	594	591.33	1.63	595	593.3	1.93	595	593.8	1.61	595	594.53	1.04
	50	rnd	556	488.37	30.98	575	526.83	26.19	573	537.57	21.59	585	566.37	12.61
51	20	rnd	594	591.4	1.22	595	593.63	1.71	595	594.33	0.71	595	594.5	1.33
		2op	528	492.07	15.96	570	528.97	27.93	573	538.9	24.23	582	561.57	15.9
	50	rnd	594	591.37	1.97	595	593.87	1.17	595	593.97	1.43	595	594.47	1.01
	20	rnd	551	499.77	19.62	569	524.93	23.8	579	532.03	25.34	586	562.3	21.47
		2op	595	592.03	1.61	595	593.97	1.25	595	594.37	0.61	595	594.67	0.48

Table A.455: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	767.53	6.92	774	768.87	3.2	776	770.97	2.48	775	772	2.49
		2op	775	766.73	3.78	774	768.43	2.62	774	770.93	2.42	777	771.5	2.7
	50	rnd	776	770.2	4.25	775	771.73	2.35	775	772.5	2.39	777	772.8	1.95
51	20	rnd	774	768.07	5.34	775	771.7	2.07	777	772.03	2.7	777	772.2	1.88
		2op	776	766.53	7.29	777	769.37	3.6	776	769	5.36	775	770.73	2.59
	50	rnd	772	767.97	2.7	774	769.27	2.63	775	770.43	2.21	775	771.13	2.18
	20	rnd	775	769.2	3.63	777	772.03	2.53	777	773.2	2.31	777	773.8	1.9
		2op	775	769.5	2.87	777	772.47	2.65	777	772.23	2.49	777	773.2	2.22

Table A.456: f_{25_400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	766.67	6.9	777	768.57	4.83	775	769.57	4.9	775	771.53	2.37
		2op	772	765.9	3.22	775	769.77	3.01	774	770	2.83	775	770.67	2.28
	50	rnd	777	768.33	8.36	777	771.63	3.05	777	772.53	2.76	775	772.4	1.57
51	20	rnd	777	769.03	3.4	777	771.2	2.95	777	772.23	2.01	776	772.2	2.2
		2op	774	768.07	4.14	775	769.9	2.84	775	770.2	3.08	777	772.2	2.3
	50	rnd	774	767.33	3.49	773	768.8	2.55	774	770.6	2.21	775	771.77	2.3
	20	rnd	776	769.6	4.3	777	772.73	2.6	777	773.07	2.63	777	773.83	1.64
		2op	777	770.1	3.25	777	771.33	2.15	777	773.3	1.9	777	773.93	1.48

Table A.457: f_{25_400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	767.23	4.13	775	770.77	2.21	777	772.5	1.66	777	773.17	1.82
		2op	773	768.2	2.59	776	770.8	2.41	774	771.3	1.56	777	772.6	1.69
	50	rnd	775	768.07	4.38	776	772.6	1.94	777	772.57	2.45	777	773.7	1.66
51	20	rnd	775	769.4	2.63	775	771.73	2.05	777	772.97	2.28	775	773.1	1.42
		2op	775	769.4	3.23	777	772.7	2.65	777	773.87	2.03	777	774.73	1.98
	50	rnd	772	769.33	1.77	774	771.43	1.19	772	772	0	775	772.6	1.13
	20	rnd	776	770.13	2.91	777	772.67	2.8	777	773.93	1.78	777	775.8	1.27
		2op	775	770.07	2.08	775	772.4	1.07	777	773.27	1.72	776	773.37	1.43

Table A.458: f_{25_400} : basicRRGA+IM: 500 – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	769.17	3.88	777	771.8	2.89	777	772.3	2.53	777	773.8	1.79
		2op	775	769.3	2.14	775	771.63	1.85	776	771.87	2.13	777	772.93	1.93
	50	rnd	775	769.63	2.65	776	772.43	2.16	777	773.77	1.91	777	773.93	1.96
51	20	rnd	775	769.87	2.29	777	772.67	2.04	775	773.37	1.52	776	773.8	1.54
		2op	777	770.43	2.96	777	772.77	2.22	777	774.77	1.65	777	774.8	1.65
	50	rnd	774	769.87	1.8	775	772.07	1.11	775	772.2	0.76	775	773.17	1.42
	20	rnd	776	771.8	3.09	777	774.77	1.38	777	774.93	1.08	777	774.63	1.22
		2op	775	771.13	1.93	775	772.8	1.37	777	774.2	1.56	777	774.83	0.95

Table A.459: f_{25_400} : basicRRGA+IM: 5000 – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	662	610	31.76	730	672.97	31.69	768	707	37.05	767	729.53	24.39
		2op	769	766.07	4.68	769	767.7	2.53	769	768.23	1.38	772	768.87	1.53
	50	rnd	665	606.53	38.9	763	692.13	38.49	752	704.4	30.16	767	727.27	29.07
51	20	rnd	769	767.27	2.26	769	767.43	3	772	768.7	1.02	772	768.9	0.84
		2op	678	617.7	37.29	765	681.23	36.37	764	709.07	30.98	767	732.53	25.54
	50	rnd	769	766.5	4.34	769	768.87	0.51	769	768.03	1.79	771	768.8	1.13
	20	rnd	712	636.9	44.47	750	687.53	37.95	766	704.03	24.91	774	734.6	23.31
		2op	769	767.1	2.34	769	768.23	1.99	772	768.87	0.94	769	768.87	0.51

Table A.460: f_{25_400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	662	606.73	35.92	762	681.3	41.78	761	694.93	38.86	772	733.9	27.31
		2op	769	765.6	3.7	769	767.7	2.39	769	767.2	3.54	770	768.37	1.65
	50	rnd	691	606.53	41.83	764	686.93	40.26	766	709.2	36.18	772	736.7	20.48
51	20	rnd	769	766.17	2.48	769	767.83	2.26	769	767.93	2.42	772	768.5	1.66
		2op	704	621.5	39.54	739	682.6	30.57	746	707.37	27.28	767	733.03	24.82
	50	rnd	769	765.83	3.4	769	767.6	2.8	769	768.47	1.28	770	768.73	1.23
	20	rnd	704	620.37	47.2	753	690.37	32.06	762	709.3	28.34	767	734.73	28.64
		2op	769	767.37	3.09	769	768.67	0.76	769	769	0	772	769.07	1.05

Table A.461: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	915	905.4	4.26	914	909.13	2.8	917	910.93	3.42	917	912.87	2.32
		2op	916	910.53	4.45	919	912.1	3.29	918	913.67	3.14	919	914.77	2.75
	50	rnd	919	908.37	5.28	916	911.33	2.84	919	913.03	3.13	918	914.03	1.97
51	20	2op	917	912.73	3.13	919	914.6	2.82	919	914.17	2.32	919	914.7	2.64
		rnd	915	907.5	4.13	917	909.17	3.7	917	910.63	3.37	919	912.63	3.44
	50	2op	917	911.03	3.36	917	913.13	3.16	917	913.9	2.5	921	915.27	2.78
	20	rnd	919	908.8	4.57	917	912.53	2.8	921	913.57	3.87	918	914.8	2.54
		2op	918	914.4	2.18	919	915.23	2.06	921	916.2	2.43	921	916.27	1.93

Table A.462: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	915	906.3	4.57	916	910.03	3.76	917	911.67	3.57	918	912.9	2.76
		2op	918	910.47	3.96	919	911.67	3.63	918	914.13	2.86	921	914.03	3.61
	50	rnd	916	909.07	3.78	918	911	3.52	918	913.23	1.94	919	913.7	2.63
51	20	2op	918	911.67	4.16	921	913.1	3.43	919	913.53	2.71	919	914.87	2.76
		rnd	917	907.7	6.02	915	910.57	3.05	916	909.97	3.19	921	912.8	3.45
	50	2op	917	910.7	3.69	919	913.6	3.54	919	914.57	2.62	918	915.37	1.81
	20	rnd	915	909.27	3.7	918	911.87	3.79	918	912.77	2.86	919	914.7	2.2
		2op	918	914.5	2.65	919	914.63	2.63	918	915.4	2.27	919	915.97	2.28

Table A.463: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	916	906.6	4.48	917	911.23	3.57	918	912.1	2.73	919	914.5	2.47
		2op	916	912.33	2.29	918	914.67	2.35	918	916.17	1.15	919	916.2	1.32
	50	rnd	919	909.93	4.08	918	913.13	3.05	918	913.97	2.93	918	914.9	2.4
51	20	2op	918	913.8	2.44	919	916	2.32	921	916.47	1.8	921	916.93	1.6
		rnd	917	910.27	3.25	921	912.77	3.24	919	914.53	2.45	919	916.07	2.03
	50	2op	916	915.53	1.36	918	916.17	0.46	918	916.7	0.79	921	918	1.55
	20	rnd	918	911.87	2.86	921	915.43	2.33	918	915.53	2.21	919	916.83	1.62
		2op	918	915.6	1.71	921	916.93	1.41	921	917.6	1.63	921	918.07	1.6

Table A.464: f_{25_500} : basicRRGA+IM: 500 – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	913	908.63	2.25	918	912.83	2.26	921	914.03	2.7	918	915.1	2.02
		2op	917	913.8	2.57	918	915.53	2.01	921	916.8	1.65	921	917.6	1.67
	50	rnd	919	910.57	3.57	919	915.03	2.28	919	915.3	2.59	921	917	1.93
51	20	rnd	918	914.4	2.06	921	917.2	1.49	921	917.4	1.71	921	917.93	1.31
		2op	919	911.23	3.27	919	914.17	2.53	919	915.23	2.31	921	916.63	2.08
	50	rnd	916	915.83	0.91	921	916.37	1.03	921	917.8	1.79	921	917.5	1.04
	20	rnd	917	913.03	2.47	919	915.63	2.48	919	916.4	1.87	918	916.8	1.16
		2op	917	915.87	1.14	921	917.03	1.13	921	917.83	1.58	921	917.83	0.91

Table A.465: f_{25_500} : basicRRGA+IM: 5000 – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	795	725.1	44.97	857	794.07	35.18	878	819.07	28.69	896	849.4	27.18
		2op	916	912.57	3.71	916	915.83	0.91	918	915.57	1.55	917	915.73	1.34
	50	rnd	841	748	48.63	851	811.67	20.97	882	822.73	29.59	899	848.7	27.56
51	20	rnd	916	913.13	2.42	916	915.6	1.16	916	915.97	0.18	917	916.03	0.18
		2op	916	914.4	2.91	916	915.9	0.55	916	915.97	0.18	918	915.87	0.86
	50	rnd	848	775.1	35.03	861	804.1	36.19	890	828.43	30.65	905	850.67	26.64
	20	rnd	916	914.4	2.59	916	915.9	0.55	916	915.73	1.05	916	916	0

Table A.466: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	800	724.1	52.92	853	799.63	33.93	864	817.9	28.19	872	837.37	26.55
		2op	916	912.9	4.85	916	915.43	1.76	916	915.67	1.27	917	915.83	0.7
	50	rnd	807	745.5	44.67	852	801.9	30.73	904	814.87	36.27	905	853.53	31.51
51	20	rnd	916	914.17	2.59	916	915.7	1.15	916	915.77	0.77	918	915.93	0.87
		2op	829	751.3	50.29	857	799.6	37.84	860	819.47	24.47	901	837.5	26.23
	50	rnd	916	914.83	2.52	916	915.57	1.36	916	916	0	916	916	0
	20	rnd	815	750.93	37.93	866	813.7	30.4	866	819.07	33.52	867	839.73	22.6
		2op	916	914.07	2.42	916	916	0	916	916	0	918	916.13	0.43

Table A.467: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1541	1508.1	21.32	1541	1522.2	11.65	1542	1523.5	10.54	1536	1521.33	7.94
		2op	1556	1534.47	13.46	1562	1533.27	12.72	1545	1530.93	8.18	1548	1528.4	10.21
	50	rnd	1540	1522.2	13.84	1550	1535.27	9.17	1548	1533.1	8.21	1551	1534.77	7.94
51	20	rnd	1562	1537.63	12.72	1560	1541.9	8.31	1556	1542.27	9.78	1553	1539.37	8.23
		2op	1538	1518.4	12.73	1544	1525.23	12.34	1547	1527.3	11.91	1544	1525.5	11.74
	50	rnd	1565	1547.67	13.66	1564	1551.97	5.78	1559	1546.3	6.17	1562	1546.6	8.64
	20	rnd	1545	1520.17	16.99	1559	1537.33	8.75	1550	1537.77	7.87	1561	1543.8	8.03
		2op	1558	1544.2	13.61	1569	1548.67	8.64	1568	1552.67	7.96	1565	1552.63	4.99

Table A.468: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1534	1507.03	17.21	1547	1525.57	10.75	1535	1520.57	8.22	1548	1519.97	10.63
		2op	1551	1531.23	11.85	1554	1537.13	9.64	1552	1534.53	9.85	1542	1528.83	6.97
	50	rnd	1542	1513.6	15.6	1553	1533.47	9.31	1557	1534	9.88	1555	1531.93	9.26
51	20	rnd	1560	1531.53	15.08	1559	1539.17	10.67	1561	1538.1	9.45	1553	1535.7	7.53
		2op	1544	1511.37	16.88	1558	1525.23	13.51	1547	1525.73	12.07	1553	1527.97	12
	50	rnd	1564	1543.43	14.59	1565	1547.73	10.66	1561	1547.5	7.77	1564	1546.37	9.93
	20	rnd	1547	1517.1	16.51	1554	1536.07	10.57	1559	1539.67	10.78	1558	1539.8	8.23
		2op	1565	1546.43	9.87	1565	1549.87	8.07	1565	1551.4	8.15	1562	1551.9	7.11

Table A.469: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1550	1510.53	18.16	1558	1527.13	14.28	1554	1534.43	9.19	1550	1534.07	7.97
		2op	1564	1550.37	8.06	1565	1550.67	7.29	1566	1552.23	9.47	1565	1551.57	7.89
	50	rnd	1542	1519.5	10.85	1555	1538.53	10.11	1562	1542.23	10.62	1555	1540.87	7.84
51	20	rnd	1561	1542.9	11.27	1566	1551.6	8.11	1564	1553.07	5.66	1564	1550.77	6.06
		2op	1551	1523.2	12.77	1542	1533.43	7.53	1558	1540.13	10.24	1563	1543.63	10.27
	50	rnd	1565	1555.97	2.39	1565	1559.17	4.01	1566	1561.87	3.71	1566	1562.5	3.63
	20	rnd	1552	1528.07	12.89	1562	1544.2	9.51	1561	1547.13	7.79	1564	1551.3	8.63
		2op	1564	1555.47	3.08	1566	1561.47	4.01	1571	1562.57	3.68	1566	1562.43	3.35

Table A.470: f_{50_315} : basicRRGA+IM: 500 – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1537	1518.6	16.04	1551	1534.03	8.58	1549	1536.6	7.09	1554	1538.1	10.03
		2op	1566	1546.93	9.37	1565	1554.73	5.18	1566	1552.77	8.76	1565	1552.17	7.42
	50	rnd	1548	1524.7	13.64	1560	1541.43	10.17	1562	1546.97	8.91	1553	1541.77	7.81
51	20	rnd	1559	1543.17	9.08	1562	1554.1	6.02	1564	1553.13	5.94	1562	1548.07	5.55
		2op	1551	1526.77	12.99	1562	1543.83	9.55	1560	1544.03	7.71	1559	1540.67	8.33
	50	rnd	1565	1557.4	3.44	1566	1560.67	3.79	1567	1562.63	3.48	1565	1561.63	3.61
	20	rnd	1551	1531.9	11.11	1560	1545.7	7.16	1561	1545.17	7.73	1547	1534.7	5.27
		2op	1566	1558.83	4.63	1567	1561.83	4.14	1566	1560	3.81	1565	1555.07	4.81

Table A.471: f_{50_315} : basicRRGA+IM: 5000 – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1012	927.97	43.01	1084	1037.27	26.28	1140	1051.67	31.51	1148	1091.33	30.95
		2op	1555	1552.3	4.15	1564	1554.93	2.59	1565	1555.63	5.31	1565	1558.57	4.65
	50	rnd	1013	928.8	33.18	1085	1028.87	33.53	1157	1056.57	38.38	1166	1098.7	33.13
51	20	rnd	1555	1553.4	0.81	1565	1554	4.9	1564	1556	2.84	1565	1560.47	4.55
		2op	1029	923.9	36.42	1074	1034.17	26.67	1095	1052.07	31.45	1163	1101.6	31.67
	50	rnd	1556	1553.73	1.48	1564	1553.77	2.99	1564	1555.93	3.14	1565	1559.07	4.44
	20	rnd	1006	920.4	39.03	1075	1028.17	34.69	1122	1059.47	28.85	1155	1087.1	41.45
		2op	1556	1553.87	1.07	1565	1554.87	2.18	1565	1556.7	3.72	1565	1557.7	3.93

Table A.472: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	981	911.37	36.65	1085	1027.17	28.76	1125	1059.77	34.66	1168	1096.73	35.86
		2op	1555	1552.93	2.2	1565	1554.5	3.41	1565	1555.53	4.07	1565	1557.3	3.79
	50	rnd	1044	937.4	48.06	1083	1033.9	24.51	1128	1057	34.42	1150	1090.67	29.52
51	20	rnd	1563	1553.4	3.57	1565	1554.03	3.16	1565	1558	4.18	1565	1558.67	4.67
		2op	998	934.57	35.02	1090	1038.47	26.13	1116	1053.87	36.35	1140	1087.97	25.25
	50	rnd	1556	1553.3	1.74	1564	1553.4	6.89	1565	1555.8	4.12	1565	1558.67	5.34
	20	rnd	1034	926.37	45.97	1086	1034.3	34.22	1133	1060.9	24.93	1153	1083.77	26.82
		2op	1556	1553.6	1.22	1564	1554.67	1.97	1565	1555.57	2.57	1565	1560.03	4.06

Table A.473: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1530	1486.97	19.15	1534	1503.2	12.23	1526	1508.33	11.06	1534	1509.07	11.71
		2op	1545	1514.63	16.4	1551	1526.37	11.23	1545	1520.97	11.12	1550	1518.5	13.93
	50	rnd	1554	1502.2	19.98	1546	1518.27	12.87	1543	1523	12.19	1552	1520.43	11.04
51	20	rnd	1543	1519.1	16.98	1549	1528.77	14.05	1549	1530.3	11.1	1552	1528.83	12.5
		2op	1528	1495.53	21.06	1528	1507.9	17.16	1540	1513.63	17.46	1538	1510.17	14.72
	50	rnd	1555	1523.5	15.46	1552	1533.77	8.79	1550	1535.63	9.8	1551	1530.53	7.5
	20	rnd	1540	1503.93	20.6	1551	1518.87	13.43	1543	1525.13	12.25	1555	1528.57	11.66
		2op	1552	1527.37	12.51	1561	1538.97	10.56	1564	1541	9.02	1557	1541.7	8.7

Table A.474: f_{50_412} : basicRRGA – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1529	1494.8	23.05	1543	1510.8	15.38	1547	1511.23	14.95	1526	1506.03	11.05
		2op	1545	1516.97	16.88	1541	1520.63	11.67	1546	1524.23	10.81	1531	1512.83	10.45
	50	rnd	1536	1505.1	16.79	1544	1517.63	9.56	1549	1520.67	13.77	1543	1518.43	12.26
51	20	rnd	1548	1517.2	15.36	1549	1526.57	10.72	1547	1528.53	9.64	1551	1525.73	13.64
		2op	1528	1486.33	21.15	1530	1510.97	13.79	1535	1508.3	13.35	1547	1514.27	15.13
	50	rnd	1550	1525.87	10.82	1554	1530.33	12.07	1550	1533.63	9.61	1545	1531.1	9.41
	20	rnd	1541	1505.97	21.19	1554	1522.17	13.82	1553	1525.63	13.86	1557	1527.47	13.92
		2op	1549	1526.5	14.28	1556	1538.2	9.43	1555	1538.73	10.56	1558	1541.77	8.7

Table A.475: f_{50_412} : basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1524	1496.27	18.69	1555	1520.17	14.36	1552	1522.23	14	1553	1525.23	12.29
		2op	1546	1529.73	9.52	1559	1544.4	7.57	1555	1540.33	8.97	1555	1540.67	7.08
	50	rnd	1543	1501.07	20.81	1550	1525.67	11.77	1555	1530.17	11.83	1561	1534.13	10.34
51	20	rnd	1554	1529.07	14.76	1554	1537.73	10.36	1559	1543.77	8.11	1559	1545.3	7.39
		2op	1524	1501.7	13.84	1548	1517.03	14.81	1554	1526.57	11.93	1558	1528.57	15.63
	50	rnd	1555	1538.07	7.56	1556	1545.83	6.97	1557	1546.93	6.15	1564	1551.93	6.46
	20	rnd	1542	1512.4	16.03	1556	1531.3	15.43	1557	1533.1	11.13	1557	1540.47	12.5
		2op	1555	1541.47	9.36	1558	1550.4	6.88	1561	1551.13	6.93	1561	1553	5.7

Table A.476: f_{50_412} : basicRRGA+IM: 500 – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1521	1498.13	14.83	1544	1522.13	12.51	1552	1530.83	11.95	1556	1532.47	13.38
		2op	1554	1535.63	11.08	1554	1540.77	8.08	1558	1545.03	6.61	1559	1544.97	8.31
	50	rnd	1540	1502.77	21.17	1552	1529.7	10.51	1557	1535	10.71	1555	1534.13	12.02
51	20	rnd	1549	1530	11.4	1560	1541.87	10.08	1557	1546.17	6.76	1556	1543.63	7.85
		2op	1540	1506.17	17.37	1557	1525.37	12.31	1555	1533.17	11.67	1553	1532.97	11.18
	50	rnd	1555	1538.03	5.99	1556	1545.17	5.93	1556	1549.6	6.12	1559	1548.77	6.95
	20	rnd	1552	1521.47	14.9	1562	1538.5	8.28	1556	1538.37	11.29	1546	1532	8.35
		2op	1556	1542.1	6.02	1561	1551.33	6.54	1560	1550.13	7.3	1555	1545.23	5.87

Table A.477: $f_{50.412}$: basicRRGA+IM: 5000 – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	965	849.43	50.95	1042	962.6	37.51	1156	1019.97	46.19	1137	1062.77	39.25
		2op	1538	1529.53	4.09	1532	1530.23	3.2	1541	1530.57	5.37	1550	1534.8	6.96
	50	rnd	949	843.57	44.15	1088	969.43	48.27	1083	1007.27	34.96	1171	1067.47	53.98
51	20	rnd	1531	1530.03	2.51	1535	1529.97	4.31	1539	1531.27	2.35	1555	1534.03	6.59
		2op	972	865.27	44.07	1088	971	49.49	1122	1017.7	40.45	1170	1064.2	56.64
	50	rnd	1538	1529.1	5.18	1539	1529.83	4.51	1555	1531.83	5.77	1555	1534.93	7.06
	20	rnd	933	855.73	49.15	1066	970	37.48	1095	999.2	48.19	1146	1067.33	46.19
		2op	1531	1529.9	2.98	1543	1531.2	2.48	1550	1531.77	4.11	1550	1537.57	7.77

Table A.478: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	899	830.97	45.06	1107	989.33	46.82	1130	1019.17	48.35	1142	1059.5	48.45
		2op	1531	1528.27	4.75	1539	1530.07	3.79	1549	1530.07	6.67	1555	1536.2	7.91
	50	rnd	963	840.4	52.73	1108	981.7	43.92	1100	1017.43	41.33	1179	1072.33	52.81
51	20	rnd	1531	1530.07	2.97	1531	1529.73	3.67	1542	1531.8	4.41	1552	1535.67	6.66
		2op	932	852.2	41.32	1085	957.23	54.4	1093	1009.1	46.33	1187	1073	49.54
	50	rnd	1531	1530.5	1.91	1543	1528.6	6.87	1539	1530.53	4.01	1555	1535.17	8.12
	20	rnd	941	853.67	39.28	1141	977.63	58.15	1087	1004.97	43.96	1165	1060.07	58.02
		2op	1531	1531	0	1539	1531.03	2.13	1531	1530.77	0.77	1550	1534.53	5.37

Table A.479: $f_{50.412}$: transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1522	1488.4	16	1531	1506.23	10.21	1523	1504.77	9.91	1517	1502.1	10.24
		2op	1548	1515.37	15.33	1537	1517.27	10.83	1540	1517.87	11.03	1538	1511.77	11.89
	50	rnd	1525	1494.13	13.44	1533	1513.9	9.31	1529	1514.43	7.96	1539	1517.57	8.29
51	20	rnd	1540	1514.33	13.55	1539	1521.7	10.15	1543	1523.63	9.33	1535	1519.6	7.26
		2op	1531	1488.87	16.64	1533	1507.63	10.77	1537	1509.13	11.62	1535	1508.97	10.69
	50	rnd	1548	1533.07	11.75	1548	1536.17	9.75	1548	1531.07	10.6	1548	1531.4	7.99
	20	rnd	1515	1497.2	9.87	1534	1512.57	9.73	1540	1515.27	10.39	1540	1523	8.81
		2op	1548	1531.03	10.19	1548	1535.63	9.71	1548	1532.47	7.22	1548	1534.03	7.75

Table A.480: f_{50-498} : basicRRGA – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1537	1493.7	17.78	1516	1501	8.76	1516	1501.07	7.29	1524	1502.5	9.69
		2op	1538	1516.13	11.95	1548	1515.8	12.78	1544	1514.53	12.46	1530	1511.67	9.11
	50	rnd	1534	1495.2	17.28	1540	1514.2	11.51	1531	1511.93	6.93	1530	1513.27	8.41
51	20	rnd	1537	1514.8	11.82	1545	1523.3	9.4	1537	1521.03	9.18	1536	1516.57	10.25
		2op	1518	1493.2	14.37	1526	1503.57	10.93	1527	1507.97	12.34	1526	1501.23	8.27
	50	rnd	1549	1534.13	12.28	1548	1536.83	7.18	1549	1532.47	10.07	1548	1527.33	12.06
	20	rnd	1527	1502	13.97	1534	1513.23	10.41	1530	1515.2	8.35	1531	1518.8	7.02
		2op	1549	1534.57	9.53	1549	1533.43	8.08	1548	1536.07	7.74	1548	1533.1	10.01

Table A.481: f_{50-498} : basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1523	1494.47	14.69	1545	1514.3	12.21	1545	1513.1	12.36	1533	1513.63	8.41
		2op	1549	1536.07	10.29	1549	1539.57	8.96	1550	1539.47	7.35	1548	1537.2	9.83
	50	rnd	1532	1503.27	12.56	1540	1519.2	9.75	1540	1521.43	8.87	1536	1521.2	8.67
51	20	rnd	1548	1530.7	10.99	1548	1534.87	9.36	1549	1537.83	7.37	1550	1535.83	7.72
		2op	1535	1499.7	18.65	1543	1513.4	11.6	1539	1521.67	7.74	1548	1530.17	11.17
	50	rnd	1548	1548	0	1549	1548.1	0.31	1549	1548.33	0.48	1551	1548.8	0.76
	20	rnd	1524	1505.73	11.26	1539	1521.9	8.13	1547	1529.33	8.88	1552	1533.47	10.1
		2op	1549	1546.2	4.06	1549	1547.63	2.17	1549	1548	2.52	1551	1548.33	1.56

Table A.482: f_{50-498} : basicRRGA+IM: 500 – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1527	1497.43	15.62	1535	1515.53	9.97	1540	1518.8	12.35	1544	1520.1	10.03
		2op	1548	1533.93	12.57	1549	1542.37	5.89	1549	1541.5	6.94	1549	1539.2	7.71
	50	rnd	1524	1500.17	13.65	1531	1516.47	6.27	1540	1525.2	9.58	1540	1521.1	8.6
51	20	rnd	1548	1530	11.63	1548	1536.7	8.3	1548	1538.4	6.75	1549	1533.3	8.46
		2op	1533	1504.1	13.76	1540	1522.57	10.27	1544	1529.37	8.14	1540	1523.03	9.22
	50	rnd	1549	1547.77	1.87	1549	1548.2	0.61	1551	1548.57	0.82	1549	1548.1	0.31
	20	rnd	1535	1508.23	12.72	1546	1528.53	8.23	1551	1529.77	10.35	1534	1521.3	7.19
		2op	1549	1546.63	3.37	1551	1548.33	0.76	1555	1546.97	3.88	1549	1542.57	6.04

Table A.483: f_{50_498} : basicRRGA+IM: 5000 – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1033	873.97	60.25	1121	1007.23	69.25	1128	1058.2	52.32	1175	1101.13	44.6
		2op	1548	1548	0	1548	1546.83	4.08	1548	1546.6	4.38	1548	1548	0
	50	rnd	966	882.47	48.34	1151	1024.4	54.5	1138	1064.33	44.26	1158	1099.67	39.57
51	20	rnd	1548	1547.67	1.83	1548	1547.5	2.11	1549	1547.33	2.68	1549	1547.43	2.65
		2op	1064	916.3	59.37	1097	1028.63	46.62	1138	1056.33	48.99	1189	1098.6	54.49
	50	rnd	1548	1548	0	1548	1546.33	4.29	1549	1547.7	1.84	1548	1547.53	2.56
	20	rnd	983	886.77	48.29	1092	1013.3	46.67	1165	1051.4	56.15	1208	1104.9	48.88
		2op	1548	1548	0	1548	1548	0	1548	1546.97	3.93	1549	1548.03	0.18

Table A.484: f_{50_498} : transRRGA – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	984	889.57	55.3	1096	1006.23	56.22	1160	1049.8	51.57	1202	1101.17	52.37
		2op	1548	1547.17	4.56	1548	1548	0	1548	1545.83	5.78	1549	1546.23	4.21
	50	rnd	961	856.53	59.33	1121	1040.2	49.6	1159	1073.33	46.82	1205	1104.87	51.53
51	20	rnd	1548	1546.57	7.85	1548	1548	0	1549	1548.03	0.18	1548	1547.43	2.34
		2op	1072	879.17	55.46	1149	1019.83	55.83	1163	1072.37	49.83	1225	1115.87	40.29
	50	rnd	1548	1546.93	4.07	1548	1546.37	6.7	1548	1547.17	4.56	1549	1548.07	0.25
	20	rnd	990	885.73	51.08	1152	1020.1	44.27	1135	1058.73	40.31	1206	1114.43	45.68
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1549	1548.1	0.31

Table A.485: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2610	2576.93	16.05	2609	2579.6	20.04	2608	2574.3	14.93	2614	2575.93	19.4
		2op	2695	2652.97	24.4	2681	2633.17	27.37	2688	2628.47	28.46	2702	2630.63	31.29
	50	rnd	2654	2611.87	20.66	2639	2601.3	16.76	2617	2595.17	12.78	2621	2595.47	14.07
51	20	2op	2726	2666.4	32.17	2674	2643.5	15.89	2679	2634.13	24.57	2664	2626.3	20.15
		rnd	2652	2581	30.35	2627	2589.27	17.63	2628	2591.33	20.91	2621	2586.9	16.97
	50	2op	2762	2712.07	25.17	2753	2712.77	23.99	2762	2704.63	34.21	2748	2700.67	28.02
	20	rnd	2671	2618.77	22.71	2664	2628.93	18.23	2640	2615.7	13.29	2648	2613.43	17.79
		2op	2762	2710.67	24.9	2753	2706.2	22.51	2745	2706.6	22.43	2745	2696.07	23.73

Table A.486: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2615	2577.73	21.49	2608	2574.47	17.79	2603	2575.97	17.5	2614	2576.53	14.09
		2op	2712	2656.1	25.05	2681	2627.47	24.47	2687	2627.83	26.84	2720	2624.1	35.03
	50	rnd	2639	2595.07	22.14	2630	2598.43	16.12	2632	2591.77	13.24	2643	2589.97	21.23
51	20	2op	2715	2669.97	25.01	2686	2642.33	22.27	2684	2637.53	24.83	2664	2616.67	22.42
		rnd	2620	2575.03	21.68	2621	2593.73	18.16	2618	2586.83	12.86	2612	2585.37	15.7
	50	2op	2762	2709.7	23.53	2747	2699.8	29.51	2749	2702.17	25.62	2734	2689.23	23.56
	20	rnd	2652	2621.07	20.63	2656	2621.47	13.99	2663	2620.1	14.52	2647	2607.13	16.75
		2op	2762	2714.8	22.4	2756	2697.97	24.98	2732	2699.33	24.74	2743	2681.47	24.45

Table A.487: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2629	2581.67	19.57	2647	2597.67	21.45	2650	2610.97	19.68	2642	2604.07	16.29
		2op	2762	2737.23	18.84	2762	2731.8	17.82	2757	2732.43	16.8	2762	2721.27	25.84
	50	rnd	2658	2617.33	20.43	2654	2622.2	16.55	2649	2620.17	16.03	2645	2614.43	15.56
51	20	2op	2757	2703.8	28.44	2746	2695.8	24.1	2735	2692.33	23.78	2762	2695.7	26.57
		rnd	2635	2593.1	26.43	2668	2627.3	17.72	2653	2626.6	15.8	2671	2645.07	15.97
	50	2op	2762	2761.7	1.64	2762	2761.97	0.18	2762	2762	0	2762	2762	0
	20	rnd	2673	2630.17	19.28	2694	2648.37	16.28	2698	2658.67	15.53	2707	2659.2	18.92
		2op	2762	2760.8	3.16	2762	2761.4	1.99	2762	2760.83	3.52	2762	2761.57	1.45

Table A.488: f_{100_307} : basicRRGA+IM: 500 – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2643	2593.73	23.96	2639	2604.97	16.73	2641	2614	16.26	2657	2614.37	18.27
		2op	2762	2722.17	22.77	2762	2709.13	28.28	2751	2716.73	25.41	2761	2712.2	22.94
	50	rnd	2654	2624.97	18.66	2649	2621.43	14.27	2648	2620.9	13.07	2638	2611.33	11.31
51	20	rnd	2748	2711.4	27.22	2734	2696.53	20.77	2735	2685.83	17.99	2720	2682.83	17.34
		2op	2636	2597.9	23.66	2672	2642.97	17.14	2671	2650.57	11.42	2663	2627.93	21.19
	50	rnd	2762	2762	0	2762	2761.9	0.55	2762	2761.9	0.55	2762	2759.13	5.36
	20	rnd	2661	2624.37	17.96	2664	2637.3	16.34	2672	2629.2	15.39	2650	2611.37	14.43
		2op	2762	2760.47	3.14	2762	2760.77	3.06	2762	2753.13	8.08	2762	2739.13	13.01

Table A.489: f_{100_307} : basicRRGA+IM: 5000 – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1286	1204	45.08	1453	1382.07	44.42	1501	1416.63	42.9	1537	1471.67	42.62
		2op	2762	2761.57	2.37	2762	2760.07	6.03	2762	2759.87	9.14	2762	2762	0
	50	rnd	1327	1184.57	47.04	1509	1385.93	50.91	1491	1407.93	44.53	1586	1469.63	54.25
51	20	rnd	2762	2762	0	2762	2761.67	1.83	2762	2761.6	2.19	2762	2762	0
		2op	1314	1242.2	43.24	1493	1430.17	39.91	1531	1456.53	38.45	1561	1476.43	37.84
	50	rnd	2762	2762	0	2762	2762	0	2762	2761.03	5.29	2762	2760	6.78
	20	rnd	1322	1238.27	39.64	1483	1411	42.42	1533	1457.93	41.36	1545	1487.4	34.47
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2761.1	3.55

Table A.490: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1284	1174.4	42.31	1442	1388.57	38.05	1515	1425.87	53.02	1536	1458.6	46.76
		2op	2762	2761.27	2.84	2762	2759.03	6.87	2762	2761.57	2.37	2762	2761.17	4.56
	50	rnd	1328	1187.97	56.18	1458	1394.57	42.6	1505	1408.77	52.06	1552	1450.3	47.78
51	20	rnd	2762	2761.77	1.28	2762	2762	0	2762	2762	0	2762	2762	0
		2op	1307	1234.97	37.68	1481	1415.43	39.18	1529	1453	44.26	1585	1490.6	44.73
	50	rnd	2762	2761.37	3.47	2762	2762	0	2762	2762	0	2762	2762	0
	20	rnd	1319	1242.33	33.26	1501	1418.73	49.34	1522	1438.2	49.65	1540	1490.57	32.51
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.491: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2678	2637.8	17.45	2666	2637.4	14.52	2678	2646.2	16.52	2681	2646.53	20.03
		2op	2752	2711.63	23.15	2726	2685.6	23.55	2755	2691.43	26.23	2750	2683.1	22.5
	50	rnd	2724	2679.1	22.92	2712	2670.37	20.04	2701	2667.53	15.07	2685	2664.17	12.31
51	20	rnd	2782	2718.33	26.26	2763	2699.2	22.99	2756	2691.3	22.08	2746	2688.23	22.81
		2op	2684	2644.1	26.8	2705	2658.6	16.81	2701	2657.3	20.88	2710	2656.13	21.79
	50	rnd	2793	2753.17	28.3	2783	2750.33	19.25	2804	2743.37	25.35	2785	2740.87	23.98
	20	rnd	2733	2684.87	22.2	2718	2691.1	15.16	2710	2681.87	15.3	2711	2679.2	15.22
		2op	2804	2761.17	27.72	2791	2754.37	14.14	2797	2742.37	22.63	2773	2734.37	22.35

Table A.492: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2689	2638.57	22.58	2678	2641.87	19.95	2678	2645.03	20.09	2671	2647.07	13.24
		2op	2735	2707.73	19.1	2720	2684.3	18.49	2717	2678.5	22.74	2733	2678.77	21.79
	50	rnd	2699	2665.5	21.21	2708	2665.87	19.12	2698	2665.37	16.81	2683	2656.07	12.62
51	20	rnd	2781	2719.43	26.45	2754	2699.47	24.58	2747	2684.7	23.49	2747	2677.53	25.01
		2op	2683	2641.67	22.2	2681	2645.73	19.82	2704	2653.13	18.77	2688	2657.1	16.82
	50	rnd	2804	2753.7	30.03	2786	2751.37	21.94	2784	2747.53	20.1	2804	2746.67	24.13
	20	rnd	2719	2685.13	22.14	2727	2685.63	17.07	2712	2686.9	15.39	2704	2678.73	12.7
		2op	2800	2760.03	23.39	2781	2748.8	20.66	2804	2745.2	22.89	2782	2733.97	23.3

Table A.493: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2673	2637.33	20.89	2697	2665.4	22.74	2705	2671.63	17.12	2711	2679.97	17.08
		2op	2804	2782.7	18.35	2804	2781.8	14.51	2804	2778.27	22.54	2804	2775.73	18.33
	50	rnd	2705	2672.57	16.94	2728	2689.67	21.95	2721	2685.8	15.35	2726	2680.7	14.63
51	20	rnd	2804	2756.37	21.1	2785	2746.33	20.07	2791	2739.87	22.87	2774	2739.4	20.25
		2op	2703	2654.07	24.72	2721	2679.67	20.72	2732	2691.3	17.6	2747	2713.9	15.8
	50	rnd	2804	2804	0	2804	2803.7	1.64	2804	2804	0	2804	2804	0
	20	rnd	2744	2695.1	21.42	2745	2713.23	15.56	2767	2728.93	15.2	2752	2731.47	13.75
		2op	2804	2802.37	4.85	2804	2803.73	1.01	2804	2804	0	2804	2803.27	2.42

Table A.494: $f_{100.415}$: basicRRGA+IM: 500 – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2680	2650.13	20.21	2721	2676.23	19	2732	2689.43	17.64	2732	2686.77	17.91
		2op	2804	2759.37	24.08	2804	2760.13	24.53	2790	2758.77	21.52	2804	2755.4	22.59
	50	rnd	2711	2678.23	18.24	2729	2691.77	14.56	2719	2685.27	15.96	2719	2690.3	12.64
51	20	rnd	2795	2749.03	19.35	2804	2742.2	22.8	2804	2740.43	21.97	2799	2733.1	26.3
		2op	2695	2660.23	19.66	2754	2710.87	17.47	2760	2716.47	16.72	2749	2701	19.79
	50	rnd	2804	2804	0	2804	2804	0	2804	2804	0	2804	2801.9	4.91
	20	rnd	2735	2693.13	18.15	2746	2707.4	17.34	2732	2700.4	15.39	2719	2687.67	13.12
		2op	2804	2801.2	5.94	2804	2803.73	1.01	2804	2799.03	9.38	2804	2775.33	13.93

Table A.495: $f_{100.415}$: basicRRGA+IM: 5000 – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1178	1135.33	22.56	1391	1306.03	37.38	1393	1343.53	31.74	1441	1381.63	31.72
		2op	2804	2803.53	2.56	2804	2800.97	7.14	2804	2801.73	9.84	2804	2802.33	4.11
	50	rnd	1200	1134.73	35.3	1362	1306.8	31.13	1458	1341.6	36.74	1455	1386.9	38.19
51	20	rnd	2804	2804	0	2804	2803.07	3.55	2804	2802.8	3.67	2804	2803.63	2.01
		2op	1215	1165.23	27.75	1397	1332.37	30.85	1451	1356.4	33.59	1449	1396.57	32.77
	50	rnd	2804	2802.43	5.09	2804	2804	0	2804	2802.77	5.32	2804	2804	0
	20	rnd	1248	1159.33	33.23	1368	1319.97	28.86	1402	1350.8	27.5	1457	1391.17	36.22
		2op	2804	2804	0	2804	2802.83	4.76	2804	2804	0	2804	2804	0

Table A.496: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1283	1140.3	44.89	1375	1297.4	36.5	1413	1348.13	30	1467	1384.3	38.36
		2op	2804	2801.9	6.43	2804	2801.23	6.8	2804	2802.03	6.37	2804	2802.9	3.6
	50	rnd	1193	1137.13	35.17	1345	1299.17	28.24	1436	1337.03	36.43	1501	1388.03	35.25
51	20	rnd	2804	2803.53	2.56	2804	2801.87	6.12	2804	2803.03	4.17	2804	2802.7	3.99
		2op	1243	1180.8	28.98	1392	1336.47	29.86	1454	1369.67	36.32	1513	1409.07	40.21
	50	rnd	2804	2803	3.81	2804	2803.73	1.46	2804	2802.87	4.31	2804	2802.1	5.8
	20	rnd	1246	1168.23	34.67	1397	1324.8	35.66	1462	1356.87	36.4	1431	1389.1	29.96
		2op	2804	2804	0	2804	2804	0	2804	2803.53	2.56	2804	2804	0

Table A.497: $f_{100.415}$: transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2567	2515.3	25.77	2545	2517	19.18	2550	2518.4	19.1	2543	2518.8	13.11
		2op	2660	2602.87	31.36	2630	2578.37	20.91	2612	2571.93	23.93	2610	2561.4	22.19
	50	rnd	2578	2547.77	22.05	2573	2543.1	13.65	2574	2535.23	14.43	2572	2532.53	16.69
51	20	rnd	2646	2609.13	23.68	2628	2587.77	20.6	2614	2569.63	21.14	2606	2577.6	18.63
		2op	2568	2517.73	23.75	2549	2518.37	20.36	2566	2526.63	16.53	2558	2528.9	18
	50	rnd	2695	2652.7	17.68	2678	2633.8	23.09	2681	2630.57	20.71	2674	2631.3	18.82
	20	rnd	2592	2553.6	25.84	2586	2559.03	19.45	2598	2556.93	17.17	2590	2555.67	17.11
		2op	2682	2649.53	19.37	2672	2638.37	19.07	2678	2642.17	17.13	2676	2621.97	23.85

Table A.498: $f_{100.512}$: basicRRGA – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2568	2516.2	24.85	2534	2509.8	13	2552	2517	17.01	2543	2517.73	11.98
		2op	2640	2597.87	23.26	2623	2572.63	24.11	2650	2575.87	29.74	2615	2566.63	24.49
	50	rnd	2578	2545.9	18.78	2598	2537.73	19.6	2575	2532.83	18.17	2563	2533.13	15.47
51	20	rnd	2647	2606.5	22.44	2623	2577.27	19.11	2644	2578.3	28.77	2611	2566.6	26.86
		2op	2561	2515.5	24.9	2560	2528.73	18.53	2565	2528.4	20.23	2567	2523.93	15.62
	50	rnd	2695	2649.67	26.9	2699	2633.6	24.5	2672	2637.3	20.56	2676	2633.87	22.87
	20	rnd	2601	2561.1	20.3	2586	2560.67	15.16	2596	2558.9	18.68	2601	2553.23	18.93
		2op	2685	2655.67	18.98	2679	2639.2	18.21	2671	2632.9	18.85	2667	2619.27	23.9

Table A.499: $f_{100.512}$: basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2557	2515.87	20.25	2568	2532.03	16.29	2583	2540.67	18.29	2592	2549.17	20.92
		2op	2695	2665.2	20.58	2692	2660.7	18.35	2688	2664.6	15.8	2693	2660.93	23.65
	50	rnd	2625	2550.47	24.88	2604	2558.1	19.5	2603	2555.03	14.4	2584	2553.77	15.83
51	20	rnd	2692	2655.07	19.74	2695	2643.93	22.86	2673	2635.07	22.54	2665	2635.93	18.9
		2op	2563	2526.27	23.02	2591	2561.27	18.19	2591	2561.8	16.74	2607	2582.8	18.74
	50	rnd	2696	2694.27	2.9	2699	2695.33	0.8	2700	2695.5	1.17	2700	2695.7	1.15
	20	rnd	2600	2563.43	21.5	2622	2578.67	17.01	2625	2597.13	15.85	2646	2599.8	18.93
		2op	2696	2691.9	5.71	2699	2694	3.15	2700	2693.97	3.63	2700	2694.7	2.64

Table A.500: $f_{100.512}$: basicRRGA+IM: 500 – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2562	2531.47	19.98	2585	2548.23	18.92	2593	2552.67	16.32	2606	2559.37	17.37
		2op	2695	2656.57	23.52	2682	2650.17	16.36	2685	2653	23.44	2682	2652.23	16.78
	50	rnd	2582	2558.23	17.82	2593	2562.33	17.62	2596	2562.33	16.48	2601	2563.63	16.08
51	20	rnd	2692	2644.07	19.75	2672	2635.4	19.45	2688	2625.67	21.23	2675	2631.07	20.15
		2op	2573	2535.77	16.35	2620	2580.2	18.87	2637	2595.27	17.15	2598	2567.2	17.33
	50	rnd	2699	2694.63	2.82	2700	2696	1.29	2700	2696.97	1.99	2696	2686.2	7.82
	20	rnd	2605	2569.13	17.93	2630	2581.77	17.77	2613	2575.17	18.95	2610	2563.37	17
		2op	2700	2690.4	8.59	2700	2692.63	6.3	2696	2682.43	10.69	2688	2664.87	14.17

Table A.501: f_{100_512} : basicRRGA+IM: 5000 – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1232	1172.5	28.75	1441	1345.7	38.03	1474	1384.37	41.3	1529	1437.43	50.4
		2op	2696	2691.4	5.54	2696	2691.93	6.88	2696	2693.3	4.6	2696	2694.93	0.74
	50	rnd	1212	1165.6	29.23	1429	1348.5	35.06	1457	1386.6	36.1	1525	1432.13	44.2
51	20	rnd	2695	2692	3.95	2695	2694.47	2.03	2695	2695	0	2696	2692.63	8.23
		2op	1282	1211.2	33.97	1451	1371.77	32.97	1515	1422.8	37.46	1551	1456.03	35.52
	50	rnd	2695	2691.67	5.2	2695	2694.53	1.61	2695	2694.17	3.06	2696	2695.07	0.52
	20	rnd	1269	1192.77	31.64	1455	1360.8	32.89	1542	1412.13	43.49	1539	1442	44.23
		2op	2695	2691.17	3.87	2695	2694.93	0.37	2695	2695	0	2696	2695.1	0.31

Table A.502: f_{100_512} : transRRGA – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1249	1173.2	31.16	1432	1342.07	36.51	1448	1394.33	35.27	1533	1453.33	44.08
		2op	2695	2690.7	6.08	2696	2694.23	2.19	2695	2692.8	5.73	2696	2695.03	0.18
	50	rnd	1255	1179.63	36.2	1458	1352.23	50.54	1462	1395.93	40.71	1506	1447.2	37.05
51	20	rnd	2695	2692.07	3.92	2696	2693.57	3.9	2695	2694.73	1.46	2697	2694.73	1.93
		2op	1263	1204.7	33.68	1437	1365.77	26.98	1448	1407.33	24.14	1542	1447.7	44.25
	50	rnd	2695	2691.5	4.13	2696	2693.8	3.82	2696	2694.2	4.05	2696	2694.5	2.35
	20	rnd	1251	1187.27	26.89	1410	1360.3	27.12	1489	1406	34.14	1561	1459.7	46.53
		2op	2695	2692.23	3.8	2695	2695	0	2696	2695.07	0.25	2696	2694.7	2.42

Table A.503: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15540	15336.33	107.35	15913	15677.1	114.5	15964	15798.53	82.71	15991	15679.07	125.23
		2op	17606	17470.17	86.15	17631	17469	81.19	17557	17394.47	97.56	17461	17232.5	144.59
	50	rnd	15664	15357.2	132.77	15944	15736.7	118.94	16015	15893.63	83.63	16131	15913.43	99.13
51	20	rnd	17579	17466.8	74.11	17602	17468.57	80.06	17674	17437.77	91.87	17528	17382.13	73.54
		2op	15637	15368.1	131.01	15805	15590.93	89.68	15942	15665.33	118.97	15947	15721.97	100.03
	50	rnd	17746	17668.6	44.07	17766	17659.9	48.28	17736	17623.67	62.96	17612	17536.87	65.17
	20	rnd	15599	15383.93	117.13	15899	15667.03	127.72	16038	15827.47	106.24	16140	15842.4	117
		2op	17690	17602.43	59.53	17734	17620.43	51.03	17738	17627.07	64.99	17691	17571.13	82.11

Table A.504: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15549	15325.97	131.13	15901	15719.2	90.42	16045	15780.6	140.7	15891	15687.87	106.41
		2op	17600	17448.97	60.18	17604	17456.97	74.64	17576	17358.37	96.26	17518	17218	108.23
	50	rnd	15606	15366.17	130.13	16071	15775.53	132.94	16131	15850.77	118.55	16155	15920.5	118.19
51	20	rnd	17606	17444.43	92.09	17616	17439.53	88.7	17584	17421.17	94.36	17553	17375.37	94.98
		2op	15557	15325.57	137.57	15946	15637.4	133.56	15892	15712.67	91.52	15976	15679.93	138.57
	50	rnd	17739	17650.63	49.76	17743	17653.7	61.92	17721	17622	58.68	17653	17518.17	72.73
	20	rnd	15615	15365.4	98.75	15833	15648.8	78.06	16039	15820.2	108.77	16117	15852.6	132.86
		2op	17735	17633.43	61.03	17722	17626.83	65.99	17739	17628.1	66.21	17748	17590.73	70.45

Table A.505: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15573	15336.7	128.12	15777	15495.47	132.04	15723	15590.5	86.75	15769	15597.2	89.81
		2op	17766	17728.67	34.89	17766	17726.77	30.7	17766	17719.87	30.47	17765	17665.27	56.26
	50	rnd	15676	15407.4	135.51	15935	15640.9	126.04	16024	15716	155.12	15905	15738	102.48
51	20	rnd	17766	17724.47	34.01	17766	17732.87	30.26	17766	17716.47	37.78	17756	17686.9	43.07
		2op	15537	15355.93	131.46	15796	15393.87	142.27	15798	15479.67	135.37	15680	15432.83	117.51
	50	rnd	17766	17766	0	17766	17765.37	3.47	17766	17766	0	17766	17766	0
	20	rnd	15752	15441.4	130.14	15753	15564.4	83.61	15974	15586.33	138.79	15881	15618.57	123.67
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17765.83	0.91

Table A.506: f_{508_354} : basicRRGA+IM: 500 – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15666	15343.97	121.14	15813	15648.4	93.78	15786	15627.33	100.15	15921	15595.13	202.94
		2op	17766	17729.03	28.26	17766	17735.13	29.17	17749	17698.87	41.24	17665	17467.57	99.25
	50	rnd	15771	15502.57	124.7	15999	15735.27	105.6	15846	15667.63	124.07	15943	15432.7	325.87
51	20	rnd	17766	17701.87	53.61	17766	17710.93	38.36	17714	17611.73	68.58	17582	17375.57	96.4
		2op	15686	15482.2	84.33	15825	15592.6	127.67	15790	15580.97	117.62	15768	15443.97	145.23
	50	rnd	17766	17766	0	17766	17766	0	17766	17760.63	8.66	17650	17547.73	45.9
	20	rnd	15790	15620.07	93.99	15863	15666.3	109.81	15804	15621.23	100.6	15759	15458.33	157.39
		2op	17766	17765.37	3.47	17768	17766.1	0.4	17754	17709.57	25.48	17577	17428	67.71

Table A.507: f_{508_354} : basicRRGA+IM: 5000 – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	4320	4253	26.98	4764	4688.07	32.36	4914	4851.47	38.7	5079	4960.8	61.74
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	4318	4255.37	31.14	4761	4673.17	38.61	4889	4835.2	32.63	5043	4942.17	38.83
51	20	rnd	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
		2op	4382	4338.13	22.97	4878	4814.37	32.62	5033	4972.17	36.84	5184	5110.9	38.86
	50	rnd	17766	17766	0	17766	17766	0	17766	17766	0	17766	17765.83	0.91
	20	rnd	4369	4317.27	23.69	4847	4783.97	30.6	5052	4961.17	37.07	5138	5060.5	39.88
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0

Table A.508: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	4304	4255.27	25.75	4719	4664.23	28.72	4924	4838.37	36.92	5017	4961.53	32.33
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	4290	4247.17	25.48	4735	4659.73	35.62	4891	4821.5	36.34	5059	4946.9	54.33
51	20	rnd	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
		2op	4388	4334.9	26.86	4855	4808.63	26.25	5049	4979.17	32.81	5202	5086.13	42.93
	50	rnd	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	20	rnd	4377	4312.8	25.13	4854	4785.77	31.75	4995	4940.03	33.89	5140	5084.1	36.48
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0

Table A.509: f_{508_354} : transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19408	19059.1	143.5	19711	19408.57	117.86	19608	19381.7	91.93	19533	19124.07	163.23
		2op	21887	21716.77	102.23	21854	21663.77	100.45	21756	21553.87	102.43	21460	21311.2	79.78
	50	rnd	19371	19073.37	136.47	19680	19440.73	116.45	19710	19548.37	107.45	19685	19483.67	99.03
51	20	rnd	21856	21721.07	81.32	21849	21685.4	94.73	21877	21688.43	81.47	21719	21536.83	100.29
		2op	19471	19059.13	149.4	19617	19323.93	143.86	19574	19390.47	129.09	19537	19259.07	157.5
	50	rnd	21991	21909.47	60.75	21993	21911.33	48.39	21950	21792.17	84.7	21820	21661.3	77.29
	20	rnd	19324	19055.73	135.38	19654	19405.9	112.65	19732	19502.93	117	19683	19531.6	106.95
		2op	21974	21865.2	65.25	22013	21877.1	61.21	21953	21849.33	62.04	21957	21776.67	81.4

Table A.510: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19317	19070.07	125.86	19698	19409.73	91.1	19652	19401.97	120.54	19515	19089.5	190.33
		2op	21958	21721	95.93	21941	21650.2	107.41	21759	21526.47	106.81	21567	21306.87	138.97
	50	rnd	19386	19078.7	116.44	19683	19498.43	113.18	19725	19556.63	93.03	19745	19450.83	128.75
51	20	rnd	21812	21685.33	82.68	21834	21648.9	105.8	21840	21645.4	106.05	21653	21507.57	81.43
		2op	19288	19064.73	128.39	19597	19337.2	125.92	19528	19325.6	117.61	19551	19255.4	174.53
	50	rnd	21995	21917.87	57.12	21956	21878.3	51.11	21904	21786.73	80.03	21813	21641.23	90.45
	20	rnd	19301	19071.33	120.69	19608	19353.03	111.5	19683	19525.57	90.49	19743	19529.87	110.84
		2op	22012	21864.33	80.96	22012	21880.6	81.15	22012	21827.83	95.48	21948	21771.2	100.57

Table A.511: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19304	19042.17	149.11	19421	19159.87	121.86	19433	19251.7	129.91	19492	19217.87	139.58
		2op	22021	21992.53	27.17	22021	21979.13	34.43	22017	21939.17	38.17	21957	21855.7	54.57
	50	rnd	19413	19075.47	138.76	19488	19312.73	114.79	19687	19405.83	124.69	19580	19332.63	145.69
51	20	rnd	22021	21955.23	39.13	22021	21982.4	30.65	22021	21964.27	34.13	21970	21885.47	52.93
		2op	19432	19039.33	155.28	19276	19090.47	112.95	19270	19063.97	129.16	19444	19096.4	149.88
	50	rnd	22021	22021	0	22021	22020.07	3.56	22021	22021	0	22021	22021	0
	20	rnd	19414	19113.27	135.7	19358	19136.1	113.96	19446	19210.83	129.54	19546	19201.67	119.68
		2op	22021	22019.47	5.93	22021	22019.27	5.34	22021	22021	0	22021	22020.23	2.4

Table A.512: f_{635_350} : basicRRGA+IM: 500 – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19341	19067.2	143.6	19344	19176.27	102.42	19404	19125.33	128.96	19507	19194.73	129.38
		2op	22021	21992.13	27.31	22021	21975.3	34.9	21959	21878.93	49.39	21821	21687.3	97.68
	50	rnd	19355	19096.73	138.44	19604	19303.47	106.26	19354	19109.77	151.16	19480	19188.87	269.1
51	20	rnd	22021	21983.17	37.61	22021	21960.97	44.45	21959	21824.37	76.06	21710	21492.53	120.89
		2op	19303	19114.13	125.84	19318	19115.47	108.61	19186	18993.23	108.19	19155	18954.23	93.99
	50	rnd	22021	22021	0	22021	22020.57	2.37	22021	22008.83	10.14	21922	21751.83	59.32
	20	rnd	19493	19200.83	125.42	19332	19179.4	90.46	19345	19084.13	141.03	19284	18960.37	192.34
		2op	22021	22021	0	22021	22020.53	1.53	22011	21919.13	40.1	21802	21588.33	84.74

Table A.513: f_{635_350} : basicRRGA+IM: 5000 – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	5305	5260.33	23.25	5782	5714.3	32.23	6005	5923.6	40.8	6172	6075.73	47.85
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	5300	5246.13	25.83	5787	5710.2	39.89	5972	5900.73	29.12	6161	6074.6	42.92
51	20	rnd	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
		2op	5408	5345.87	25.01	5946	5878.9	33.03	6201	6090	43.2	6331	6246.43	47.67
	50	rnd	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	20	rnd	5381	5324.3	26.07	5915	5864.97	30.97	6145	6063.27	48.47	6326	6228.77	51.48
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0

Table A.514: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	5303	5253.8	22.76	5752	5700.17	35.83	5983	5904.9	36.71	6149	6070.37	43.55
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	5310	5248.83	23.19	5750	5700.47	30.07	5951	5892.87	34.97	6120	6043.37	39.92
51	20	rnd	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
		2op	5392	5326.83	31.41	5941	5868.97	37.38	6163	6081.77	35.68	6355	6250.33	46.23
	50	rnd	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	20	rnd	5384	5322.13	26.84	5959	5853.23	45.42	6160	6057	43.01	6297	6220.17	43
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0

Table A.515: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21593	21258.67	166	21901	21611.03	141.67	21868	21578.03	128.71	21534	21169.87	199.76
		2op	24265	24100.2	76.96	24177	24012.93	87.01	23998	23818.6	115.47	23731	23495.3	139.83
	50	rnd	21578	21310.07	155.98	21994	21745.07	114.24	22134	21798.87	134.08	21983	21650.67	128.34
51	20	rnd	24227	24087.5	68.99	24190	24072.3	85.81	24231	23979.83	107.58	24054	23816.07	115.62
		2op	21586	21305.17	124.25	21773	21595.7	102.87	21827	21592.27	119.86	21829	21427.97	182.81
	50	rnd	24417	24291.47	68.49	24392	24250.23	82.94	24282	24135.13	84.97	24126	23961.83	89.99
	20	rnd	21713	21305.73	158.68	21962	21649.3	123.74	21925	21766.7	106.95	22034	21804.97	125.63
		2op	24369	24269.07	55.8	24431	24266.07	70.88	24313	24198.8	78.38	24257	24086.57	76.85

Table A.516: $f737_355$: basicRRGA – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21484	21303.4	116.67	21836	21619.77	124.28	21876	21536.2	130.63	21410	21102.57	196.33
		2op	24211	24091.53	73.71	24284	24036.4	93.19	24016	23787.33	108.49	23740	23484.43	158.9
	50	rnd	21525	21286.4	136.2	22107	21734.8	136.74	22044	21817.1	117.49	21893	21548.87	154.3
51	20	rnd	24213	24064.17	91.59	24260	24051.47	88.72	24170	23960.77	95.22	23960	23757.27	110.68
		2op	21574	21325.87	131.12	21861	21604.93	144.48	21900	21601.8	119	21847	21427.73	194.33
	50	rnd	24396	24299.23	54.59	24363	24251.93	59.02	24325	24141.63	89.45	24137	23963.53	94.15
	20	rnd	21633	21296.63	156.76	21950	21698.07	118.86	21960	21780.7	95.76	22066	21681.53	181.81
		2op	24379	24249.37	63.23	24379	24268.77	62.53	24325	24204.87	70.54	24238	24070.37	106.44

Table A.517: $f737_355$: basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21518	21269.97	128.46	21774	21465.97	151.31	21717	21477.33	108.45	21791	21466.57	150.72
		2op	24429	24386.03	28.06	24425	24358.9	36.26	24384	24311.2	49.2	24318	24175.83	68.34
	50	rnd	21580	21272.97	137.95	21808	21546	152.43	21938	21651.1	117.35	21918	21593.67	139.39
51	20	rnd	24429	24371.3	38.02	24422	24363.53	39.32	24400	24323.67	44.91	24347	24244.3	64.52
		2op	21584	21265.53	132	21606	21307.33	166.3	21598	21357.93	110.02	21573	21327.17	144.08
	50	rnd	24429	24429	0	24429	24429	0	24429	24429	0	24431	24427.63	5.58
	20	rnd	21593	21336.37	129.58	21654	21382.27	156.61	21712	21449.9	150.57	21806	21438.03	149.68
		2op	24429	24429	0	24431	24427.2	5.42	24431	24428.6	4.15	24429	24428.5	1.5

Table A.518: $f737_355$: basicRRGA+IM: 500 – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21600	21232.57	165.23	21729	21287.43	155.83	21299	21119.87	117.77	21368	21222.83	111.46
		2op	24429	24393	27.32	24429	24362.47	38.61	24326	24249.57	53.04	24225	24024.07	87.62
	50	rnd	21758	21323.83	166.97	21692	21413.93	126.4	21505	21189.33	131.86	21511	21249.13	231.73
51	20	rnd	24429	24376.17	36.81	24418	24349.37	46.66	24332	24159.67	95.55	24094	23837.47	101.07
		2op	21493	21235.1	137.62	21410	21111.67	141.64	21290	20932.53	129.65	21144	20909.27	111.68
	50	rnd	24429	24429	0	24431	24429.33	0.76	24429	24411.47	10.93	24221	24128.33	59.52
	20	rnd	21581	21346.43	104.62	21427	21233.3	114.19	21264	21099.7	105.86	21414	21145.93	167.34
		2op	24431	24429.17	0.65	24431	24427.8	5.05	24351	24268.07	47.45	24086	23936.83	61.68

Table A.519: f_{737_355} : basicRRGA+IM: 5000 – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6232	6162.6	32.63	6742	6680.13	31.9	7007	6903.63	52.63	7210	7111.4	48.31
		2op	24429	24425.27	1.01	24431	24426.53	2.08	24429	24427.2	1.99	24429	24428.8	0.81
	50	rnd	6209	6160.03	23.41	6706	6643.57	35.6	6971	6889.6	38.81	7198	7077.47	48.89
51	20	rnd	24429	24425.67	1.52	24429	24426.07	1.8	24429	24428.27	1.53	24431	24428.93	0.83
		2op	6322	6265.43	29.48	6914	6854.67	26.65	7185	7108.5	35.7	7404	7308.47	49.35
	50	rnd	24429	24425.13	0.73	24429	24426.73	2.02	24429	24428.73	1.01	24431	24429.07	0.64
	20	rnd	6322	6252.13	25.79	6938	6839.67	36.09	7155	7077.57	33.66	7330	7262.27	35.44
		2op	24429	24425.93	1.72	24429	24427.2	1.99	24429	24428.47	1.38	24431	24429	0.91

Table A.520: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6243	6156.63	35.86	6733	6650.7	36.46	6959	6898.03	35.85	7157	7085.9	38.63
		2op	24429	24425.27	1.01	24429	24426.47	1.96	24429	24427.8	1.86	24431	24428.87	1.17
	50	rnd	6208	6162.83	21.77	6720	6635.5	41.31	6954	6879.13	37.9	7150	7068.27	52.7
51	20	rnd	24429	24425.27	1.01	24429	24426.13	1.8	24429	24427.53	1.96	24431	24429.13	0.51
		2op	6306	6252.8	24.05	6933	6849.2	38.58	7172	7103.33	37.52	7408	7287.83	39.08
	50	rnd	24429	24425.67	1.52	24429	24426.87	2.03	24429	24427.93	1.8	24431	24429.07	0.37
	20	rnd	6301	6237.33	25.77	6893	6825.47	29.47	7183	7075.8	37.49	7359	7265.77	42.7
		2op	24429	24425.93	1.72	24429	24427	2.03	24429	24427.93	1.8	24431	24429	0.91

Table A.521: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	41022	40557.83	189.04	40712	40371.87	212.05	40573	40007.77	301.73	40716	39823.17	631.83
		2op	47130	46994.3	102.75	46746	46390.37	188.11	46352	46035.23	166.8	45943	45617.97	183.63
	50	rnd	41116	40788.93	202.53	41506	41100.1	187.16	41328	40933.27	195.69	41458	40513.43	546.76
51	20	rnd	41131	40598.87	210.43	40880	40497.53	147.16	40916	40418.03	206.95	41321	40573.37	238.91
		2op	47337	47212.27	67.59	47100	46895.73	131.43	46930	46629.03	153.31	46901	46486.7	207.16
	50	rnd	41256	40795.43	220.54	41393	41074.23	220.07	41497	41111.77	182.92	41667	41148.57	310.93
			47318	47183.17	88.29	47247	47068.5	85.19	47020	46856.4	91.29	46848	46540.93	142.93

Table A.522: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	40877	40530.63	210.35	40643	40358.33	188.08	40380	39908.13	219.88	40595	39412.93	805.13
		2op	47146	46967.03	74.72	46657	46407.93	135.03	46251	45961	160.94	45782	45552.27	165.69
	50	rnd	41097	40788.23	167.98	41508	41014.77	179.3	41205	40823.07	185.67	41275	40240.17	610.04
51	20	rnd	47204	46994.2	95.01	46949	46715.07	137.19	46634	46294.43	150.49	46308	45896.63	162.39
		2op	40956	40545.4	222	40984	40553.87	188.37	40883	40457.63	175.38	40998	40617.93	208.7
	50	rnd	47315	47165.47	73.56	47083	46861.07	106.58	46833	46609.37	155.7	46715	46421.3	167.06
			41418	40808.1	189.99	41282	41027.33	145.95	41463	41045.83	235.09	41636	41022.47	380.56
			47293	47176.5	66.9	47215	47009.77	96.82	47011	46811.67	104.55	46810	46475.87	127.94

Table A.523: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	40777	40327.3	187.49	40717	40307.07	226.12	40698	40374.03	157.72	40718	40376.73	195.58
		2op	47348	47291.53	42.37	47281	47143.1	65.81	47196	46997.13	106.05	47178	46878.77	108.32
	50	rnd	41235	40650.07	195.69	41070	40733.3	161.14	41125	40699	173.72	41120	40796.23	173.65
51	20	rnd	47332	47281.97	37.39	47281	47174.57	57.9	47210	47027.23	98.64	47107	46845.53	130.63
		2op	40825	40413.9	178	40724	40367.23	200.64	40714	40386.77	217.54	40625	40372	139.38
	50	rnd	47359	47344.57	2.74	47359	47345.93	5.54	47359	47345.93	6.2	47359	47341.8	8.45
			41027	40614.67	199.83	40831	40565.63	214.67	41049	40631.67	196.51	40928	40615.43	195.06
			47359	47344.5	2.74	47363	47346.37	7.49	47363	47342.33	8.7	47358	47335.73	10.18

Table A.524: f_{1343_354} : basicRRGA+IM: 500 – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	39542	39157.5	197.42	38808	38524.9	194.8	38707	38210.23	244.16	38522	38123.97	176.19
		2op	47344	47294.87	43.88	47230	47090.67	90.96	47138	46906.77	126.1	46956	46769.13	121.8
	50	rnd	40158	39782.43	151.23	39534	39076	187.32	38891	38532.13	199.13	39191	38755.73	180.84
51	20	rnd	47345	47283.97	43.88	47204	47088.37	76.29	47056	46826.43	100.25	46813	46520.43	166.25
		2op	38553	38103.97	181.26	38012	37638.63	161.94	37663	37247.33	206.48	37320	36873.7	182.91
	50	rnd	47359	47346.3	6.22	47363	47345.13	6.26	47342	47293.93	21.26	47102	46938	86
	20	rnd	39513	39074.77	178.41	39124	38611.2	216.77	38652	38317.07	169.6	38681	38356.37	174.33
		2op	47359	47346.13	5.18	47359	47323.9	13.94	47208	47092.57	69.1	46807	46674.03	97.29

Table A.525: f_{1343_354} : basicRRGA+IM: 5000 – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11085	11011.73	31.32	11755	11678.5	49.9	12161	12067.13	49.56	12532	12427.1	55.69
		2op	47348	47336.67	2.59	47344	47338.97	3.9	47359	47341.57	6.13	47363	47346.1	6.99
	50	rnd	11081	11015.03	28.13	11720	11650.77	38.31	12131	12026.23	38.65	12490	12396.53	53.21
51	20	rnd	47336	47336	0	47344	47336.8	2.44	47359	47341.1	5.22	47359	47343.77	4.34
		2op	11203	11127.47	35.4	12068	11983.6	43.28	12495	12418.93	37.34	12930	12813.73	49.52
	50	rnd	47344	47337.23	2.8	47351	47340.73	4.82	47363	47343.83	7.55	47363	47347.77	6.63
	20	rnd	11160	11107.47	29.94	12026	11944.6	35.48	12478	12375.3	44.7	12913	12775.77	65.39
		2op	47351	47336.77	3.06	47351	47340.77	4.42	47351	47341.1	4.36	47363	47345.83	7.04

Table A.526: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11086	11012.57	27.82	11741	11663.77	42.87	12183	12033.73	52.89	12532	12398.27	59
		2op	47344	47336.7	2.12	47351	47338.37	4.04	47351	47341.93	4.53	47360	47347.6	5.06
	50	rnd	11063	11013.73	25.07	11673	11630.53	29.38	12105	11995.93	53.55	12461	12366.5	50.45
51	20	rnd	47351	47336.77	3.06	47344	47338	3.44	47359	47340.77	5.59	47363	47347.27	7.03
		2op	11172	11124.1	28.73	12029	11964.13	36.77	12527	12403.3	51.63	12913	12793.27	55.11
	50	rnd	47344	47337.33	3.03	47359	47339.3	5.23	47359	47343.33	4.35	47363	47350.1	7.37
	20	rnd	11179	11103.93	38.35	12016	11924.53	39.41	12465	12380.83	40.62	12850	12759	45.84
		2op	47344	47337.07	2.77	47345	47339	3.81	47359	47341.73	5.54	47359	47349.47	7.97

Table A.527: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47363	47072.03	179.76	47111	46701.77	203.65	46606	46275.23	228.53	47197	46358.97	531.55
		2op	55402	55209.13	111.2	54792	54447	118.98	54423	54041.73	155.14	53981	53637.93	195.63
	50	rnd	48151	47674.77	213.46	48168	47801.47	156.93	47898	47565	201.18	48155	47238.03	655.87
51	20	rnd	55420	55229.03	94.51	55063	54847.1	132.2	54695	54398.03	152.24	54378	53983.57	162.1
		2op	47535	47137.67	183.75	47446	47068.63	175.61	47679	46989.73	235.67	47494	47186.7	182.49
	50	rnd	55570	55422.53	81.34	55191	55017.6	115.14	55029	54755.03	145.26	54931	54618.53	172.48
	20	rnd	48125	47677.07	190.7	48405	47840.27	232.75	48120	47747.33	209.43	48598	47919.73	309.86
		2op	55560	55400.83	78.21	55345	55196.4	96.03	55155	54975.03	96.45	54867	54651.37	130.59

Table A.528: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47614	47124.8	214.97	47146	46649.97	241.16	46594	46209.53	175.32	46905	46268.63	666.8
		2op	55342	55164.7	126.04	54881	54460.47	147.69	54403	53961.1	198.88	54100	53585.03	241.12
	50	rnd	47967	47628.23	191.47	48189	47686.1	200.83	47812	47362.17	221.64	48119	47183.23	565.12
51	20	rnd	55382	55209.2	92.14	55057	54755.77	138.73	54514	54305.33	119.06	54305	53894.77	199.98
		2op	47605	47147.4	227.18	47456	47052.77	214.14	47347	46921.93	163.13	47482	47151.13	176.74
	50	rnd	55516	55407.5	52.65	55218	55018.47	126.06	55008	54695.73	164.15	54948	54533.43	195.7
	20	rnd	47973	47595.87	217.89	48188	47766.9	217.11	48062	47664.77	235.58	48249	47866.83	283.2
		2op	55539	55420.03	83.32	55359	55184.93	92.39	55198	54929.27	120.7	54864	54619.7	108.03

Table A.529: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47189	46861.73	230.36	47212	46796.63	241.69	47158	46720.83	214.33	47090	46692.53	239.03
		2op	55582	55521.53	55.97	55475	55284.77	97.37	55398	55192.23	126.4	55299	55046.03	155.06
	50	rnd	47770	47339.93	198.06	47998	47401.23	247.28	47596	47302.13	165.72	47762	47369.67	205.96
51	20	rnd	55582	55536.1	35.66	55529	55388	81.82	55346	55163.9	112.13	55246	55014.2	133.71
		2op	47447	46916.53	217.04	47242	46876.33	194.14	47180	46766.67	197.42	47242	46844.57	203.72
	50	rnd	55582	55581.63	1.67	55582	55580.57	2.51	55582	55579.47	4.24	55582	55576.73	4.46
	20	rnd	47719	47257.27	186.16	47603	47224.2	190.94	47708	47235.67	184.06	47600	47147.07	174.56
		2op	55582	55581.4	2.77	55582	55579.17	6.35	55582	55575.23	10.59	55582	55562.77	14.82

Table A.530: f_{1577_354} : basicRRGA+IM: 500 – Suspected Optimal is 57373

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	45153	44780.5	190.61	44578	44099.6	221.32	44112	43687.87	225.81	43880	43496.03	217.54
		2op	55576	55522.63	38.23	55403	55250.9	96.05	55324	55122.93	97.65	55203	54981.87	121.57
	50	rnd	45977	45651.73	187.58	45583	44851.2	227.66	44446	44186.53	183.98	44787	44396.3	221.11
51	20	rnd	55582	55527.4	41.51	55384	55241.33	100.06	55154	54998.87	127.09	54988	54706.63	114.5
		2op	43775	43385.17	210.91	43170	42806.83	192.6	42620	42312.63	228.2	42442	41887.2	206.49
	50	rnd	55582	55580.43	3.37	55582	55577.13	7.28	55566	55513.93	30.64	55408	55164.43	84.47
	20	rnd	45228	44832.3	202.2	44810	44259.07	208.63	44281	43852.9	208.14	44424	43941.23	199.71
		2op	55582	55581.9	0.55	55573	55551.1	13.34	55403	55291.9	74.19	55084	54854.77	102.48

Table A.531: f_{1577_354} : basicRRGA+IM: 5000 – Suspected Optimal is 57373

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13003	12939.93	29.88	13651	13574.37	48.98	14132	14021.1	47.98	14550	14452.47	53.86
		2op	55571	55561.57	2.19	55578	55565.07	4.94	55580	55569.23	5.85	55582	55575.53	4.92
	50	rnd	12976	12924.53	26.47	13641	13574.4	41.76	14135	13994.83	52.44	14591	14447.33	60.24
51	20	rnd	55561	55561	0	55578	55564.53	4.57	55580	55568.93	6.58	55582	55575.67	5.29
		2op	13096	13040.63	35.28	14012	13935	47.28	14546	14461.5	60.4	15064	14961.63	54.14
	50	rnd	55573	55562.43	3.42	55579	55567.5	5.05	55582	55571.7	5.73	55582	55578.9	3.41
	20	rnd	13103	13026.03	37.62	13966	13879.57	42.6	14546	14415.63	63.86	15038	14907	54.42
		2op	55571	55562.43	3.21	55580	55566.27	5.61	55580	55570.47	6.92	55582	55578.9	3.02

Table A.532: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12988	12933.83	25.65	13648	13561.97	44.53	14086	13986.4	45.37	14533	14428.93	48.92
		2op	55571	55561.8	2.55	55573	55564.83	4.28	55580	55568.4	5.46	55582	55575.53	5.19
	50	rnd	12985	12919.17	28.26	13650	13574.87	49.4	14097	13985.57	56.59	14541	14402.23	54.91
51	20	rnd	55563	55561.07	0.37	55578	55564.33	4.99	55582	55570.03	6.49	55582	55576.2	4.4
		2op	13098	13029.8	26.65	14008	13916.63	47.19	14552	14465.23	47.66	15061	14934.4	73.03
	50	rnd	55571	55561.57	2.19	55580	55567.43	7.3	55580	55572.4	6.28	55582	55578.9	3.08
	20	rnd	13124	13028.6	34.93	13954	13855.3	46.71	14518	14407.67	61.3	14984	14892.57	38.23
		2op	55571	55562.27	2.92	55578	55566.83	5.69	55582	55571.7	5.67	55580	55577.8	3.46

Table A.533: f_{1577_354} : transRRGA+RS – Suspected Optimal is 57373

Results With Post Optimization

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47298	47145.7	80.53	47290	47160.4	68.19	47399	47204.8	92.26	47332	47196.97	79.92
		2op	47375	47264.57	57.26	47396	47266.17	63.23	47376	47250.47	67.24	47352	47217.53	92.06
	50	rnd	47314	47167	80.03	47338	47162.87	96.87	47294	47184.07	57.81	47404	47192.63	88.88
51	20	rnd	47328	47261.77	44.74	47324	47248.27	54.53	47436	47259.93	72.85	47410	47233.87	92.74
		2op	47287	47180.5	80.9	47293	47153.23	89.38	47365	47183	73.22	47333	47215.67	80.84
	50	rnd	47340	47277.97	37.21	47345	47269.47	36.1	47372	47284.77	46.46	47391	47274.4	62.77
	20	rnd	47295	47170.23	75.43	47412	47198	105.09	47420	47203.3	87.23	47326	47201.63	78.62
		2op	47334	47271.23	36.66	47387	47267.77	56.57	47389	47281.63	49.92	47395	47267.77	74.53

Table A.534: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47330	47132.37	90.89	47287	47144.43	89.02	47339	47176.33	87.42	47354	47184.03	81.06
		2op	47329	47243.07	47.15	47358	47266.5	60.96	47364	47239.9	76.15	47344	47224.63	61.76
	50	rnd	47277	47127.53	74.9	47341	47185.13	96.97	47315	47160.17	100.12	47388	47193.23	91.82
51	20	rnd	47356	47244.33	52.64	47371	47259.53	59.97	47450	47257.3	65.07	47368	47255.3	73.02
		2op	47309	47168.47	75.17	47354	47186.83	76.24	47350	47212.97	81.28	47431	47214.13	79.04
	50	rnd	47314	47271.2	36.71	47337	47278.67	37.23	47354	47287.7	37.08	47367	47269.93	57.52
	20	rnd	47360	47190.9	87.88	47352	47187.73	84.56	47342	47204.53	89.03	47329	47196.57	77.74
		2op	47330	47260.37	33.03	47344	47269.4	52.06	47397	47276.47	60.05	47392	47270.9	71.03

Table A.535: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47334	47209.53	62.7	47351	47218.33	58.65	47322	47198.47	80.62	47332	47229.5	75.6
		2op	47369	47287.47	27.71	47349	47292.7	32.17	47337	47295.73	27.05	47399	47305.4	38.15
	50	rnd	47313	47193.87	74.53	47369	47225.3	54.26	47334	47210.37	58.81	47394	47239.33	65.35
51	20	rnd	47346	47283.7	25.05	47334	47296.57	24.32	47356	47315	31.07	47407	47309.37	47.82
		2op	47352	47260.5	43.11	47296	47224.8	43.57	47316	47243.97	42.8	47296	47240.3	35.64
	50	rnd	47331	47291.17	17.3	47364	47315.23	20.78	47371	47326.97	24.81	47381	47355.77	17.19
	20	rnd	47351	47243.17	57.73	47339	47237.6	45.72	47302	47227.73	42.12	47330	47263.87	41.13
		2op	47358	47299.4	22.29	47376	47333.3	20.07	47380	47349.9	18.12	47406	47373.77	10.52

Table A.536: *acin1*: basicRRGA+IM: 500 – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47351	47231.47	65.18	47363	47226.53	51.54	47326	47216.73	79.71	47433	47245.4	60.7
		2op	47342	47292.17	24.76	47367	47314.1	28.7	47368	47317	34.59	47369	47297.97	46.03
	50	rnd	47324	47192.37	59.38	47408	47243.73	61.01	47388	47270.03	71.03	47370	47259.87	49.25
51	20	rnd	47352	47303.03	21	47400	47338.3	30.53	47410	47359.9	31.59	47382	47308.4	56.3
		2op	47314	47254.6	39.68	47348	47263.8	50.17	47371	47256	57.31	47360	47262.63	46.61
	50	rnd	47351	47306.77	23.2	47392	47351.17	19.15	47394	47363.6	13.16	47403	47280.6	54.39
	20	rnd	47366	47280.37	40.1	47437	47320.83	43.06	47391	47314.93	48.19	47370	47249.03	59.4
		2op	47384	47335.7	23.29	47413	47388.1	18.38	47431	47365.77	23.55	47369	47302.77	36.16

Table A.537: *acin1*: basicRRGA+IM: 5000 – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47359	47274.2	43.52	47355	47270.87	49.73	47338	47237.07	54.43	47335	47198.5	81.24
		2op	47298	47281.13	10.59	47342	47290.63	16.31	47332	47301.37	16.05	47364	47323.4	20.18
	50	rnd	47349	47293.83	40.21	47346	47251.17	69.61	47341	47212.03	76.32	47318	47210.1	65.33
51	20	rnd	47322	47285.47	17.15	47334	47286.4	15.78	47346	47301.03	20.11	47379	47322.73	21.77
		2op	47366	47285.57	39.52	47320	47241.3	50.21	47356	47230.57	71.7	47346	47228.9	58.53
	50	rnd	47300	47280.73	9.91	47335	47295.37	17.35	47351	47307.33	22.37	47362	47324.7	21.36
	20	rnd	47400	47276.1	51.03	47349	47247.37	58.11	47348	47220.93	61.93	47313	47223.97	48.31
		2op	47306	47279.7	10.54	47324	47290.47	15.08	47350	47297.93	19.62	47369	47329.83	19.63

Table A.538: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47361	47262.83	48.74	47341	47257	64.94	47349	47209.17	79.66	47320	47208.33	69.74
		2op	47300	47279.6	10.52	47322	47288.2	14.41	47340	47303.7	19.1	47382	47325.83	24.47
	50	rnd	47365	47288.17	36.24	47408	47264.37	64.04	47355	47254.33	55.71	47361	47217.73	55.38
51	20	rnd	47322	47278.87	11.6	47329	47289.53	16.62	47324	47290.93	15.59	47369	47327.8	21.2
		2op	47392	47293.8	62.59	47368	47250.37	55.72	47343	47216.73	74.29	47324	47227.43	70.42
	50	rnd	47298	47281.37	10.73	47332	47303.97	16.39	47343	47301.27	19.78	47354	47326.6	20.33
	20	rnd	47368	47297.2	39.22	47339	47267.9	52.13	47325	47250.27	48.23	47330	47209.87	75.6
		2op	47308	47280.27	10.4	47324	47292.13	16.71	47331	47302.7	18.29	47363	47328.3	18.8

Table A.539: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151213	151000.57	113.82	151238	151016.8	147.72	151195	150997.4	128.55	151175	150945.13	189.42
		2op	151210	151011.27	164.32	151185	150881.67	350.95	151222	150964.9	222.37	151235	150809.7	402.22
	50	rnd	151234	151004.2	183.95	151172	150854.67	336.64	151169	150945.17	244.74	151183	150936.17	222.71
51	20	rnd	151240	151009.2	197.05	151161	151061.67	89.54	151285	150973.07	292.57	151226	150921.4	261.98
		2op	151141	151022.93	80.89	151228	151040.5	96.62	151135	151016.1	111.77	151196	151020.23	178.05
	50	rnd	151214	151046.07	116.35	151245	151086	91.54	151215	151088.67	87.3	151238	151032.33	187.61
	20	rnd	151230	151041.97	103.32	151159	151035.63	77.09	151195	150945.87	265.03	151145	151018.57	80.81
		2op	151234	151065	110.68	151246	151053.47	140.64	151228	151077.77	102.88	151218	150984.53	185.85

Table A.540: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151185	151022.4	157.82	151193	151049.47	102.6	151152	150953.5	215.35	151186	150857.8	275.48
		2op	151215	151062.43	115.6	151228	150976.83	252.17	151253	151020.53	224.85	151203	150983.4	241.12
	50	rnd	151166	150983	198.92	151210	150972.2	307.05	151176	150924.57	200.5	151177	150856.47	490.18
51	20	rnd	151238	151063.77	148.51	151182	150941.6	221.78	151217	150929.8	287.94	151234	150970.9	247.64
		2op	151178	151017.6	96.28	151195	151024.83	142.55	151158	151021.57	134.84	151172	151012.53	132.42
	50	rnd	151204	151086.07	128.38	151241	150979.17	191.15	151246	151064.17	146.59	151224	150981.33	248.39
	20	rnd	151177	151014.33	77.41	151171	150954.47	246.96	151182	150970.03	244	151141	150948	192.47
		2op	151208	151048.43	122.65	151211	151072.83	126.78	151228	151055.9	172.76	151218	150999.67	195.75

Table A.541: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151150	151002.23	93.59	151208	151032.77	79.07	151156	151050.93	83.23	151205	151045.47	81.78
		2op	151203	151065.7	93.31	151196	151075.63	120.08	151227	151075.67	139.84	151207	151080.43	142.39
	50	rnd	151241	151050.67	92.34	151175	151012.07	163.64	151199	151045.57	86.09	151209	150985	201.61
51	20	rnd	151209	151061.97	111.6	151207	151106.27	77.36	151212	151056.67	157.31	151180	150982.57	193.4
		2op	151210	151011.6	91.24	151212	151037.9	97.9	151198	151056.23	74	151132	151034.57	83.82
	50	rnd	151193	151083.97	71.37	151189	151093.07	62.55	151215	151086.6	68.24	151194	151067.93	72.28
	20	rnd	151181	151035.7	79.37	151177	151064.33	81.96	151183	151056.4	70.49	151197	151052.73	95.32
		2op	151189	151076.63	66.87	151197	151086.3	73.29	151214	151072.87	87.73	151177	151054.23	99.73

Table A.542: *acin2*: basicRRGA+IM: 500 – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151176	151028.87	86.12	151176	151025.03	104.61	151180	150950.7	199.96	151154	150975.7	355.45
		2op	151204	151076.83	75.47	151190	151061.03	89.92	151167	151067	82.18	151172	150967.4	192.71
	50	rnd	151157	151057.67	46.62	151217	151026.87	99.47	151202	151042.1	80.33	151182	150858.73	327.07
51	20	2op	151215	151068.33	110.84	151243	151078.47	95.95	151210	151015.83	180.44	151158	150922.53	195.24
		rnd	151236	151064.67	80.42	151173	151062.23	71.29	151259	151031	99.68	151150	150956.13	259.57
	50	2op	151222	151095.33	67.14	151200	151080.73	75.14	151168	151058.43	125.89	151189	151038.03	150.07
	20	rnd	151155	151024.53	72.26	151181	151041	84.88	151219	151026.17	83.87	151150	150978	193.41
		2op	151200	151070.47	61.84	151216	151088.67	83.54	151242	151071.1	114.96	151197	151012.3	193.3

Table A.543: *acin2*: basicRRGA+IM: 5000 – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151157	151039.9	68.91	151175	151066.7	74.37	151158	151032.67	82.4	151194	151044.67	107.56
		2op	151163	151086.77	47.86	151189	151092.3	66.35	151175	151076.67	58.46	151191	151080.33	73.29
	50	rnd	151154	151068.4	75.83	151164	151027.13	76.72	151173	151041.23	64.26	151182	151042.63	89.79
51	20	2op	151189	151089.43	50.9	151186	151060.57	66.09	151186	151079.63	56.34	151186	151094.2	64.6
		rnd	151189	151055	58.23	151170	151047.7	73.63	151149	151052.7	72.55	151193	151055.77	76.55
	50	2op	151163	151071.37	31.2	151186	151073.63	63.44	151189	151095.63	72.97	151189	151074.2	67.81
	20	rnd	151130	151036	71.79	151170	151020.33	106.59	151169	151069.6	65.8	151163	151059.97	80.39
		2op	151176	151079.97	51.6	151170	151101.43	54.62	151163	151071.6	52.95	151189	151078.43	69.64

Table A.544: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151151	151038.6	73.36	151167	151049.7	69.81	151205	151052.23	78.91	151190	151050.33	88.98
		2op	151177	151074.83	53.14	151186	151079.67	61.56	151222	151088.97	62.31	151189	151085.1	62.04
	50	rnd	151150	151021.87	95.67	151177	151052.07	85.11	151172	151048.2	99.88	151223	151052	100.63
51	20	2op	151186	151065.03	45.06	151189	151093.37	60.65	151209	151084.47	77.58	151186	151074.97	70.36
		rnd	151175	151030.03	88.18	151175	151035.17	91.64	151217	151037.97	92.23	151197	151060.7	74.81
	50	2op	151186	151076.13	47.59	151186	151085.5	58.37	151186	151081.7	67.58	151186	151073.27	67.7
	20	rnd	151158	151010.4	116.65	151140	151028.4	76.36	151189	151057.6	90.28	151172	151026.47	105.23
		2op	151163	151085	49.43	151189	151082.93	63.4	151175	151099.5	54.86	151186	151090.97	52.11

Table A.545: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166675	166270.97	271.6	166754	166304.97	266.03	166915	166345.43	275.41	166833	166345.3	273.78
		2op	166567	166392.87	142.51	166673	166364.33	196.58	166722	166321	239.8	166715	166250.1	311.29
	50	rnd	166690	166304.2	223.74	166885	166412.07	196.14	166703	166357.03	185.48	166739	166332.4	216.9
51	20	rnd	166710	166373.43	187.12	166884	166388.97	184.62	166725	166366.43	207.92	166676	166270.93	268.58
		2op	166739	166381.73	205.62	166723	166359	181.42	166769	166370.43	197.96	166631	166205.27	385.79
	50	rnd	166579	166336.57	150	166705	166422.13	179.91	166570	166370	187.53	166654	166370.9	206.1
	20	rnd	166768	166407.23	175.5	166725	166438.9	156.29	166679	166423.07	144.46	166729	166396.97	184.86
		2op	166555	166359.63	136.27	166748	166428.2	146.12	166779	166455.4	143.49	167035	166403.33	278.59

Table A.546: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166775	166382.23	254.74	166569	166301.4	212.4	166813	166243.9	335.71	166645	166133.97	433.41
		2op	166613	166326.23	179.27	166697	166307.97	257.04	166662	166304.97	219.52	166589	166250.4	373.28
	50	rnd	166641	166339.23	235.52	166707	166346.1	283.36	166657	166318.17	229.62	166732	166226.13	384.37
51	20	rnd	166585	166346.7	183.2	166702	166292.23	249.68	166830	166370.63	186.51	166869	166235.17	260.3
		2op	166699	166372.57	188	166848	166325.9	246.71	166833	166356.37	224.99	166878	166395.2	220.18
	50	rnd	166646	166393.2	131.22	166668	166370.13	184.05	166684	166402.93	189.93	166668	166303.23	260.28
	20	rnd	166882	166381.97	261.76	166818	166441.93	197.04	166763	166466.9	195.44	166754	166361.87	244.35
		2op	166593	166413.17	144.39	166703	166349.47	195.69	166645	166326.13	213.74	166751	166294.13	350.77

Table A.547: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166765	166427.8	175.88	166973	166473.4	191.25	166813	166436.57	154.84	166856	166417.9	240.71
		2op	166573	166353.87	129.99	166683	166430.97	122.23	166604	166400.8	152.61	166967	166461.7	178.81
	50	rnd	166677	166353	190.81	166769	166462.23	165.2	167157	166444.07	244.18	166838	166384	182.39
51	20	rnd	166568	166385.67	101.52	166711	166430.97	154.64	166565	166379.17	139.32	166696	166421.73	225.02
		2op	167022	166544.6	190.38	167214	166582.33	218.39	167100	166500.07	182.94	166942	166506.9	243.51
	50	rnd	166470	166402.47	63.49	166517	166373.77	65.76	166581	166367.53	92.73	166754	166407.33	153.88
	20	rnd	166908	166547.13	201.75	166996	166490.67	235.17	166800	166537.6	189.2	166812	166563.73	181.58
		2op	166477	166402.2	57.07	166733	166410	84.4	166689	166428.8	108.6	166711	166421.03	145.68

Table A.548: *acin3*: basicRRGA+IM: 500 – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166979	166500.53	202.57	166705	166351.57	181.38	166822	166417.53	159.31	166687	166389.57	220.32
		2op	166697	166396.73	98.65	166786	166421.97	125.77	166851	166422.4	144.37	166709	166445.53	140.1
	50	rnd	166773	166360.2	288.35	166643	166377.83	151.3	166753	166392.3	196.4	166673	166308.4	311.63
51	20	2op	166628	166389.37	146.34	166686	166375.1	140.86	166546	166292.3	244.88	166756	166292	216.7
		rnd	166889	166503.03	230.73	166803	166445.3	245.9	166838	166506	196.14	166699	166371.23	219.74
	50	2op	166477	166416.97	59.65	166695	166437.43	118	166573	166412.27	103.48	166564	166367.23	112.29
	20	rnd	166940	166579.33	211.85	166988	166520.33	202.43	166884	166434.8	231.95	166915	166430.87	274.37
		2op	166621	166425.33	75.08	166794	166467.97	133.64	166681	166414.57	155.47	166777	166429.53	162.45

Table A.549: *acin3*: basicRRGA+IM: 5000 – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166910	166398.43	334.22	167192	166507.27	215.56	167011	166562.33	192.01	166897	166561.3	173.45
		2op	166470	166451.4	30.31	166477	166416.3	47.05	166513	166428.1	51.43	166557	166401	85.49
	50	rnd	166831	166439.17	209.81	166800	166472.97	161.27	166770	166504.57	144.34	167144	166608.2	273.79
51	20	2op	166477	166447.9	32.84	166477	166435.67	38.23	166477	166423.2	40.8	166477	166408.17	55.39
		rnd	166927	166451.37	178.34	167048	166615.33	215.39	166959	166615.97	214.57	167202	166694.67	258.08
	50	2op	166513	166444.57	38.79	166470	166421.57	34.55	166470	166408.93	56.37	166545	166390	68.18
	20	rnd	166783	166443.93	150.48	166969	166512.73	230.21	167025	166637.4	206.83	167108	166689.13	247.49
		2op	166477	166426.07	48.92	166513	166428.8	42.19	166470	166403.83	50.6	166477	166402.23	50.95

Table A.550: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166791	166431.57	173.69	166771	166492.47	183.79	167095	166568.47	217.54	167081	166647.3	201.31
		2op	166477	166458	30.67	166477	166431.13	47.83	166477	166430.33	41.09	166537	166406	62.09
	50	rnd	166776	166474.1	156.8	166957	166522.37	200.02	166904	166541.47	219.54	166964	166641.93	183.52
51	20	2op	166513	166449.13	36.97	166477	166429.57	50.19	166477	166422.6	47.12	166537	166418.97	56.79
		rnd	166855	166457.9	150.21	167115	166567.23	211.88	167004	166618.47	245.14	167049	166692.47	224.87
	50	2op	166470	166440.7	41.78	166482	166435.6	47.22	166497	166428.07	47.68	166493	166407.9	60.82
	20	rnd	166766	166476.27	187.44	166799	166531.73	202.39	166878	166501.67	223.29	167144	166779.17	163.67
		2op	166470	166438.67	40.61	166513	166425.87	45.75	166470	166407	39.97	166571	166406.13	56.08

Table A.551: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162894	162635.43	162.25	162959	162635.67	183.93	162916	162548.6	310.58	162879	162607.23	209.33
		2op	163035	162686.93	258.85	162991	162666.7	262.71	163044	162590.1	310.86	162933	162558.77	303.12
	50	rnd	162898	162639.13	138.32	163000	162620.3	260.39	162891	162465.1	346.19	162937	162606.93	165.65
51	20	rnd	162992	162645.6	215.23	162980	162570.1	284.94	162960	162683.27	184.03	162969	162587.17	284.3
		2op	162968	162630.9	184.38	162937	162642.23	157.38	162906	162559.43	260.72	162873	162588.4	197.92
	50	rnd	163061	162701.77	191.71	163019	162682.3	220.98	162993	162674.2	277.09	162978	162548.8	328.67
	20	rnd	162953	162558.8	254.79	162917	162629.13	151.3	162848	162597.5	137.31	162892	162554.17	209.27
		2op	163040	162730.13	215.8	163006	162668.17	254.58	162968	162712.9	267.4	162944	162629.37	270.29

Table A.552: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162883	162593.1	233.55	162924	162536.23	260.37	162966	162636.2	175.2	162863	162590.17	214.3
		2op	162975	162657.57	218.8	162993	162658.67	308.23	162995	162707.8	183.93	162895	162512.97	237.86
	50	rnd	162935	162598.33	187.6	162892	162638.1	238.52	162908	162667.97	152.17	162832	162527.77	237.28
51	20	rnd	162968	162706.07	208.95	163004	162664.4	259.92	163010	162564.03	217.22	162921	162627.77	238.14
		2op	162841	162564.5	236.58	162962	162518.3	287.33	162893	162556.9	302.6	162974	162586.63	272.33
	50	rnd	162957	162709.1	212.45	163006	162671.57	198.9	163024	162762.03	220.19	162945	162633.3	260.82
	20	rnd	162960	162583.13	233.96	162841	162616.3	194.1	162975	162705	156.79	162933	162606.8	272.98
		2op	162963	162714.9	159.23	163066	162713.83	237.86	163022	162702.5	203.57	162990	162672.57	232.72

Table A.553: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162910	162605.1	165.2	162940	162599.57	268.04	162888	162643.5	211.86	162773	162613.13	120.87
		2op	162972	162709.93	173.38	163049	162691.27	223.22	162944	162684.47	218.55	163027	162720.77	189.04
	50	rnd	162888	162601.43	223.35	162969	162629.1	253.2	162992	162627.73	245.07	162979	162655.63	175.97
51	20	rnd	162991	162671.83	161.57	163003	162618.23	222.79	163069	162620.5	271.48	163026	162680.5	183.25
		2op	162942	162629.2	213.67	162915	162573.93	244.89	162941	162613	237.79	162944	162665.6	232.3
	50	rnd	162846	162729.67	55.5	162990	162701.77	146.14	163038	162692.17	187.54	162995	162750.03	188.17
	20	rnd	162897	162629.67	174.71	162955	162626.27	207.49	162882	162599.97	215.42	162918	162607.53	213.73
		2op	162949	162706.87	105.71	162949	162741	153.71	162992	162646.5	196.34	162999	162715.07	214.07

Table A.554: *acin5*: basicRRGA+IM: 500 – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163018	162534.27	289.59	162965	162553.03	276.56	162942	162564.83	285.25	162885	162524.47	235.74
		2op	162988	162696.27	180.7	163022	162648.2	222.53	162965	162666.93	237.15	162997	162637.27	225.98
	50	rnd	162961	162677.83	159.87	162915	162671.2	187.69	162831	162568.8	278.52	162854	162568.03	224.31
51	20	rnd	162998	162671.67	191.34	163008	162584.9	324.43	163043	162621.3	253.46	162862	162520.73	289.58
		2op	162969	162616.5	180.24	162940	162604.4	259.75	162926	162606.07	169.04	162848	162596.67	292.4
	50	rnd	162882	162752.9	66.31	162945	162756.77	127.46	162983	162694.7	212.24	163065	162667.7	262.13
	20	rnd	162937	162684.07	164.98	162967	162603.17	195.48	162989	162623.3	155.74	163023	162627.63	196.83
		2op	162940	162747.03	100.62	163014	162729.17	193.17	162925	162693.63	206.16	162986	162665.47	184.81

Table A.555: *acin5*: basicRRGA+IM: 5000 – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163130	162670.03	215.75	162928	162656.6	174.26	162995	162593.47	281.6	162941	162640.77	201.35
		2op	162751	162740.37	25.65	162867	162728.73	51.37	162923	162753.67	65.3	162882	162728.57	86.17
	50	rnd	162978	162689.57	167.22	163023	162654.23	182.55	162871	162619.87	208.26	162927	162607.7	186.99
51	20	rnd	162846	162748.43	37.88	162851	162750.63	54.8	162851	162759.43	46.12	162857	162729.83	59.96
		2op	162938	162630.57	221.02	162872	162627.23	202.26	162968	162652.67	176.76	162950	162670.27	180.17
	50	rnd	162751	162740.37	25.65	162846	162752.93	40.68	162911	162749.47	61.44	162925	162767.53	57.95
	20	rnd	162950	162611.83	270.5	162915	162720.13	139.6	162982	162694.5	255.25	162961	162709.07	187.21
		2op	162846	162751.67	20.35	162911	162734.67	76.38	162856	162771.03	48.26	162851	162752.23	56.93

Table A.556: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162952	162697.2	184.15	162938	162651.97	250.06	163038	162688.83	189.09	162896	162661.7	201.01
		2op	162848	162751.47	34.38	162751	162729.07	34.43	162868	162725.87	62.76	162882	162748.3	61.89
	50	rnd	163007	162658.17	226.48	162975	162623.87	239.57	162920	162603.57	316.51	162981	162571.3	244.17
51	20	rnd	162846	162746.8	30.05	162882	162746.07	73.19	162846	162749.73	43.23	162929	162766.37	57.38
		2op	162916	162631.17	201.31	162988	162585.57	256.84	162997	162648.93	212.53	162981	162660.5	204.66
	50	rnd	162851	162757.6	32.98	162888	162761.27	45.41	162882	162765.67	59.31	162879	162758.7	59.2
	20	rnd	162915	162573.53	254.9	162964	162664.3	210.3	163028	162683.73	146.12	162996	162661.87	216.62
		2op	162846	162747.77	26.53	162851	162738.73	60.22	162882	162736.7	70.33	162911	162757.43	60.94

Table A.557: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179562	179123.43	346.01	179519	179215.77	285.64	179690	179274.87	334.86	179546	179196.63	321.26
		2op	179823	179498.4	173.97	179799	179408.3	233.56	179685	179389.9	211.94	179647	179240.03	308.89
	50	rnd	179555	179217.8	176.92	179671	179295.63	212.58	179601	179275.8	218.69	179639	179247.73	305.18
51	20	rnd	179724	179446.87	187.92	179723	179367.7	246.13	179824	179373.37	246.37	179630	179310.93	229.68
		2op	179620	179244.57	311.54	179787	179144.83	352.72	179586	179241.7	269.56	179578	179189.13	233.96
	50	rnd	179777	179531.3	143.21	179768	179513.67	186.39	179804	179424.77	239.34	179733	179396.67	297.68
	20	rnd	179643	179182.7	263.06	179637	179213.63	303.99	179604	179276.57	266.45	179589	179196.13	293.71
		2op	179757	179578.17	117.84	179835	179434.3	191.01	179799	179413.83	250.37	179760	179344.27	300.86

Table A.558: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179663	179291.37	311.29	179605	179171.4	317.64	179627	179283.73	220.06	179528	179164.37	241.95
		2op	179836	179469.07	170.67	179740	179445.23	206.8	179729	179351.63	274.78	179671	179378.83	217.35
	50	rnd	179727	179158.63	344.04	179682	179237.13	276.57	179553	179186.4	293.77	179638	179168.27	227.63
51	20	rnd	179932	179485.67	207.69	179721	179388.57	199.82	179736	179315.57	321.04	179584	179255.1	276.25
		2op	179634	179253.53	341.25	179614	179218.5	239.68	179559	179246.6	243.98	179639	179181.53	352.46
	50	rnd	179759	179543.03	128.95	179701	179427	181.08	179883	179367.87	276.81	179881	179421.93	236.11
	20	rnd	179546	179125.73	344.1	179732	179265.33	233.06	179768	179283.27	283.59	179563	179182.5	291.69
		2op	179794	179504.87	151.31	179762	179433.9	214.79	179794	179450.33	186.17	179788	179370.27	279.1

Table A.559: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179572	179232.27	338.64	179576	179193.87	251.44	179554	179125.87	313.58	179750	179182.17	286.33
		2op	179782	179499.97	87.39	179886	179540.8	180.55	179736	179492.67	183.24	179757	179388.2	232.95
	50	rnd	179767	179237.7	370.04	179576	179217.27	237.21	179707	179326.6	204.09	179446	179113.8	326.49
51	20	rnd	179800	179510.13	102.99	179749	179499	131.1	179669	179367.2	194.85	179831	179378.67	299.25
		2op	179621	179254.27	328.74	179567	179180.17	266.59	179595	179169.17	243.96	179656	179222.47	282.58
	50	rnd	179655	179516.57	36.94	179729	179523.27	62.43	179767	179542.93	91.43	179774	179492.27	141.9
	20	rnd	179563	179130.4	257.18	179746	179258.5	305.03	179642	179179.03	350.88	179554	179032.37	320.61
		2op	179621	179513.43	42.5	179738	179522.33	73.63	179701	179533.17	76.86	179734	179461.87	181.95

Table A.560: *acin7*: basicRRGA+IM: 500 – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179558	179206.83	210.58	179673	179172.93	305.25	179546	179203.97	195.43	179578	179247.17	253.69
		2op	179761	179529.87	94.49	179734	179451.53	155.34	179850	179361.37	277.39	179740	179411.93	215.19
	50	rnd	179534	179247.43	200.23	179608	179257.57	196.76	179620	179098.3	278.33	179442	179112.97	268.23
51	20	rnd	179716	179498.7	113.35	179774	179463.37	213.86	179660	179351.37	249.5	179699	179326.43	220.56
		2op	179531	179165.3	204	179622	179195.37	286.94	179707	179237.73	243.79	179693	179108.63	348.24
	50	rnd	179621	179513.27	25.36	179714	179551.93	71.32	179835	179521.23	169.82	179777	179307.3	280.89
	20	rnd	179594	179330.17	162.71	179677	179203.83	319.81	179757	179209.77	236.5	179587	179118.7	300.38
		2op	179595	179506.87	33.39	179915	179507.43	167.47	179778	179395.9	288.7	179710	179425.87	225.88

Table A.561: *acin7*: basicRRGA+IM: 5000 – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179783	179305.67	354.73	179636	179250.03	317.15	179612	179216.73	319.29	179616	179355.17	176.48
		2op	179558	179508.8	14.81	179655	179518.1	34.64	179558	179514.13	20.97	179558	179515.3	22.75
	50	rnd	179605	179273	220.07	179623	179367.07	171.87	179604	179269.93	195.58	179648	179250.1	239.54
51	20	rnd	179558	179506.93	14.23	179558	179511.07	18.92	179649	179514.73	32.13	179558	179507	19.31
		2op	179646	179322.53	226.18	179596	179304.33	182.73	179785	179301.77	322	179601	179245.27	250.55
	50	rnd	179524	179503.77	3.83	179556	179508.4	16.19	179655	179518.97	39.51	179693	179521.33	46.35
	20	rnd	179677	179322.13	247.78	179601	179311.5	221.22	179695	179224.87	317.95	179657	179229.1	240.82
		2op	179655	179508.13	27.74	179655	179514.27	30.54	179558	179514.4	21.55	179888	179541.43	79.22

Table A.562: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179624	179345.8	212.03	179635	179270.13	244.88	179656	179339.2	176.81	179601	179271.63	218.4
		2op	179558	179509.2	16.98	179558	179503.77	11.56	179697	179513.33	36.87	179649	179516.5	31.08
	50	rnd	179651	179298.77	216.38	179643	179279.37	230.33	179694	179256.4	212.93	179592	179296.5	240.38
51	20	rnd	179558	179504.63	10.19	179697	179516.13	37.47	179558	179510.77	16.1	179820	179519.17	62
		2op	179646	179336.43	211.2	179789	179346.37	323.22	179641	179249.13	249	179643	179299.17	322.66
	50	rnd	179558	179505.27	10.79	179558	179509.5	15.57	179697	179519.77	45.4	179655	179536.23	57.95
	20	rnd	179570	179302.13	158.75	179688	179273.4	246.19	179598	179235.83	266.51	179592	179293.9	284.11
		2op	179558	179509.37	17.49	179558	179503.97	11.5	179625	179507.33	24.93	179524	179502.73	10.38

Table A.563: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342722	342174.63	483.24	342820	342225.7	408.4	342826	342193.7	495.69	342776	342065.77	577.58
		2op	342806	342405.93	294.81	342936	342374.87	441.83	342764	342263.83	419.81	342896	341905.9	629.3
	50	rnd	342774	342232.47	474.25	342764	342233.8	414.5	342906	342158.47	671.15	342714	342008.53	479.35
51	20	rnd	342807	342419.3	293.44	342776	342397.77	328.46	342848	342287.47	544.68	342895	342319.7	463.1
		2op	342644	342090.2	446.57	342895	342357.9	343.47	342820	342288.63	395.33	342859	342100.87	818.21
	50	rnd	342747	342478.1	169.41	342860	342465.53	273.81	342799	342288.27	436.11	342903	342298.03	431.86
	20	rnd	342687	342203.87	442.27	342779	342196.57	378.4	342747	342368.93	185.44	342680	342049.5	676.43
		2op	342813	342522.9	179.03	342834	342450.17	294.21	342757	342308.27	346.59	342882	342329.8	528.59

Table A.564: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342834	342318.13	406.57	342742	342184.97	519.94	342712	342115.53	563.18	342807	342241.43	408.91
		2op	342772	342272.43	382.9	342805	342185.63	421.76	342949	342211.63	566.24	342835	342072.13	684.42
	50	rnd	342857	342099.67	548.95	342790	342225.7	420.93	342753	342030.8	636.92	342921	342146.37	597.52
51	20	rnd	342856	342457.87	296.45	342782	342279.8	432.32	342765	342153.1	729.92	342903	342101.17	711.63
		2op	342700	342251.77	270.28	342665	342307.03	332.3	342895	342249.97	449.85	342742	342097.17	501.29
	50	rnd	342752	342443.17	225.81	342766	342474.73	189.66	342847	342433.87	401.74	342854	342240.6	528.84
	20	rnd	342769	342253.77	341.28	342850	342336.23	365.39	342655	342233.47	443.02	342617	341988.37	575.09
		2op	342710	342447.47	157.73	342851	342344.9	258.35	342877	342407.33	409.14	342819	342312.97	525.27

Table A.565: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342728	342304.17	297.25	342846	342286.73	258.76	342777	342343.97	294.03	342888	342359.43	325.37
		2op	342846	342564.13	146.91	342900	342466.9	202.65	342939	342423.7	346.25	342865	342271.6	558.15
	50	rnd	342653	342140.93	393.36	342669	342291.67	345.19	342762	342308.27	293.15	342751	342468.4	171.77
51	20	rnd	342670	342475.4	128.64	342965	342486.07	210.92	342840	342362.57	307.3	342744	342348.33	348.45
		2op	342763	342118.1	393.07	342825	342292.43	326.5	342893	342288.17	347.19	342926	342301.07	354.83
	50	rnd	342742	342533.33	92.65	342746	342561.33	85.39	342750	342548.03	101.24	342839	342452.03	259.96
	20	rnd	342691	342218.3	401.42	342711	342299.2	333.78	342839	342265.73	323.65	342784	342242.2	373.98
		2op	342689	342536.17	90.28	342826	342537.47	123.98	342874	342509.63	134.83	342807	342498.57	232.56

Table A.566: *acin9*: basicRRGA+IM: 500 – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342704	342212.17	362.14	342789	342351.73	317.71	342812	342346	242.79	342636	342104.23	421.93
		2op	342865	342535.23	155.06	342887	342441.3	238.23	342872	342297.97	493.07	342799	342244.47	479.4
	50	rnd	342672	342182.47	433.65	342712	342259.37	403.43	342735	342095.03	677.6	342754	342121.57	512.81
51	20	rnd	342718	342487.77	138.03	342890	342402.1	322.63	342814	342426.97	309.51	342846	342182.27	743.77
		2op	342784	342391	238.23	342777	342347.13	259.57	342841	342393.73	273.25	343040	342286.17	402.71
	50	rnd	342704	342496.73	75.47	342800	342539.9	110.83	342843	342436.7	270.55	342761	342455.8	234.9
	20	rnd	342786	342318.73	343.3	342708	342191.6	374.54	342776	342261.33	493.78	342738	342093.2	500.89
		2op	342643	342505.67	74.24	342893	342524.83	187.53	342800	342464.83	276.3	342750	342198.63	531.5

Table A.567: *acin9*: basicRRGA+IM: 5000 – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342646	342305.77	161.35	342701	342313.2	214.27	342690	342395.2	182.35	342995	342341.43	400.67
		2op	342571	342414.6	42.09	342682	342466.83	82.57	342682	342494.2	79.18	342741	342522.73	86.66
	50	rnd	342739	342338.73	199.11	342694	342320.6	217.33	342702	342276.47	235.71	342818	342348.73	266.85
51	20	rnd	342610	342418.53	59.76	342698	342466.03	81.76	342820	342513.83	110.84	342682	342498.33	77.59
		2op	342672	342355.47	192.22	342702	342308.27	319.25	342595	342228.8	265.46	342621	342203.67	356.51
	50	rnd	342591	342427.37	63.05	342700	342485.77	99	342682	342499.3	82.65	342835	342506.17	101.49
	20	rnd	342563	342218.53	246.54	342697	342246.77	294.62	342756	342254.83	366.37	342685	342269.63	354.61
		2op	342610	342413.77	49.47	342675	342465.23	82.62	342682	342491.23	99.36	342749	342548.17	100.95

Table A.568: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342684	342345.67	158.42	342667	342249.47	217.07	342682	342244.8	359.22	342777	342362.13	209.85
		2op	342610	342428.47	61.64	342591	342449.7	69.24	342811	342479.6	96.14	342698	342531.07	78.16
	50	rnd	342792	342321.13	269.12	342835	342264.2	300.96	342771	342289.43	224.02	342625	342281.87	286.55
51	20	rnd	342571	342406.7	32.75	342660	342457.03	74.99	342682	342513.63	90.41	342680	342526.9	90.16
		2op	342733	342391.07	202.97	342729	342335.7	185.73	342762	342273.57	235.39	342816	342350	231.78
	50	rnd	342610	342436.53	71.02	342748	342471.2	84.85	342661	342495.8	98.86	342838	342516.13	107.12
	20	rnd	342692	342295.67	209.91	342713	342347.47	211.33	342631	342330.6	213.23	342719	342351.9	192.1
		2op	342643	342418.27	57.31	342683	342465.77	91.17	342670	342482.2	85	342860	342516.87	107.39

Table A.569: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226299	224797.23	844.55	226495	224979.17	922.52	226427	224807.93	872.02	226444	225156.6	760.61
		2op	226652	225310.23	731.18	226637	225855.93	493.47	226778	225680.27	591.81	227038	225900	540.09
	50	rnd	227151	225118.57	995.74	226393	224949.8	826.83	226240	224873.7	898.85	226676	224965.57	946.71
51	20	rnd	226377	225507.57	465.08	226983	225744.87	688.74	226849	225880.33	731.06	226809	225742.9	817.48
		2op	226560	224854.83	1001.34	226451	224853.3	1035.26	226414	224631.97	900.9	226681	224712.83	1017.86
	50	rnd	226507	225252.2	461.26	226545	225737.57	443.41	226708	225895	504.41	226774	225878.57	512.04
	20	rnd	226482	224721.1	887	226326	224835.1	829.44	226022	224817.1	825.3	226738	225074.73	901.47
		2op	226342	225268.8	420.04	226362	225561.1	402.2	227007	225741.87	531.16	226815	225856.93	695.18

Table A.570: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226253	225131.47	883.02	227090	224734.73	1057.4	226424	224746.23	1038.53	226242	224862.67	872.49
		2op	226597	225450.77	663.16	226783	225291.1	934.5	226884	226011.7	494.77	226884	225715.17	648.62
	50	rnd	226428	225140	760.4	226373	225020.67	755.45	226459	224690.7	957.82	226486	225045.63	891.92
51	20	rnd	226202	225356.8	460.96	226734	225569.63	916.9	227026	225850.3	751.8	226693	225718.13	629.92
		2op	226318	224963.77	933.5	226525	224919.1	708.1	226481	224665.57	1044.63	226555	224804.5	848.45
	50	rnd	226276	225255.97	551.64	226699	225547.3	464.4	226844	225785.93	606.56	226990	225869.63	675.9
	20	rnd	226111	224883	842.76	226277	225297.47	745.36	226502	224988.9	900.56	226865	224731.27	1085.16
		2op	226045	225197.03	433.1	226493	225692.47	450.17	226740	225866.27	550.3	226778	225838.8	537.09

Table A.571: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226244	224665.33	1040.11	226094	225127	757.17	226422	225090.17	902.89	226547	225099.33	844.39
		2op	226031	225175.87	319.64	226670	225567.23	514.12	226845	225743.9	526.56	226716	225912.37	381.75
	50	rnd	226458	225083.47	740.06	226305	224950.03	818.21	226790	224802.37	1242.35	226590	224868.8	852.33
51	20	rnd	226240	225231.63	432.71	226684	225564.73	496.23	226672	225802.33	459.93	226922	226076.13	448.22
		2op	226358	224752.53	1058.72	226922	224810.23	1099.47	226464	225111.1	839.92	226200	224829.37	1000.59
	50	rnd	225359	224966.4	184.47	225969	225332.03	386.26	226040	225692.43	370.22	226238	225960	134.85
	20	rnd	227099	224893.6	890.41	226313	224567.87	993.6	226661	224838.43	950	226579	225049.43	1191.78
		2op	225969	225056.27	292.54	226040	225464.63	426.45	226345	225901.1	271.77	226536	226019.87	117.55

Table A.572: *bx842596_4*: basicRRGA+IM: 500 – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226020	224870.9	713.02	226016	224889.93	839.77	226335	224773.73	813.12	227171	225101.33	912.98
		2op	226316	225304.83	423.96	226367	225592.27	406.82	226782	225935.57	472.55	227066	226056.63	473.23
	50	rnd	226720	225187.43	889.17	226530	224814.9	884.78	226445	225040.97	1017.55	226943	224847.63	840.2
51	20	rnd	225991	225292.73	363.82	226676	225704.17	407.6	227121	225978.67	436.22	227042	226009.07	476.93
		2op	226368	225123.6	1027.39	226887	225077.27	853.23	226353	225077.77	803.97	226546	224850.6	804.05
	50	rnd	225969	225146.17	380.2	226005	225780.6	347.62	226609	225901.53	294.35	226720	225993.07	479.29
	20	rnd	226625	224790.67	951.48	226309	224575.17	1033.11	226136	224776.57	853.47	226134	224945.5	856.24
		2op	226004	225401.4	369.43	226022	225998.73	16.24	226785	226235.93	342.55	226961	225909.9	480.62

Table A.573: *bx842596_4*: basicRRGA+IM: 5000 – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226464	224994.57	745.42	226639	224835.13	963.33	225877	224509.83	973.15	226265	224647.73	1039.55
		2op	224897	224862.2	6.57	225301	224913.53	137.95	225658	224986.97	207.68	225991	225302.93	337.89
	50	rnd	226460	224551.93	1020.72	225600	224620.63	777.4	225984	224414.87	898.88	226357	224693.27	994.49
51	20	rnd	225301	224875.67	80.33	225301	224961.33	184.96	225742	225025.37	254.55	225976	225310.7	386.69
		2op	226253	224759.1	958.41	226189	224794.37	818.05	226171	224832.77	1054.23	226011	224596.8	886.24
	50	rnd	225301	224890.33	111.64	226004	225016.93	271.02	225998	225004.8	265.24	226040	225343.93	381.05
	20	rnd	226244	224762.6	941.94	226237	224607.93	943.4	226302	224756.83	904.42	226516	224599.93	1148.48
		2op	225301	224888	102.43	225514	224974.8	205.72	225946	225117.27	294.57	226004	225262.97	352.73

Table A.574: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226523	224842.33	942.7	226428	224700.1	929.92	226313	224903.8	997.73	226075	224908.17	785.22
		2op	225301	224875.87	80.3	225326	224959.43	185.01	225630	225021.87	235.35	226004	225200.37	393.53
	50	rnd	227068	224832.97	795.43	226425	224722.4	848.48	226172	224805.63	947.37	226363	224560	1011.54
51	20	rnd	224867	224861.2	1.1	225511	224966.33	196	225341	224977.87	173.04	225969	225234	341.44
		2op	226090	224817	810.54	225875	224676	814.34	226283	224565.73	1106.47	226665	224667.1	1204.5
	50	rnd	225359	224904.8	133.47	225998	224990.27	264.12	225940	225134.67	293.47	226004	225410.87	370.55
	20	rnd	225942	224515.47	867.61	226530	224693.17	830.28	226176	224881.03	753.63	226031	224776.07	718.16
		2op	224861	224860.8	1.1	225652	225030.9	258.88	225652	225025.87	237.55	226004	225256.63	350.29

Table A.575: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440023	438003.77	1120.78	440967	437981.7	1594.97	440033	437784.03	1111.18	441307	438593.8	1285.51
		2op	438131	437647.43	258.36	439490	438195.1	493.08	439994	438460.17	658.28	440131	438941.1	736.31
	50	rnd	439969	437880.2	1246.81	441457	438294.83	1491.92	441036	437949.67	1472.85	440190	437739	1169.54
51	20	2op	437969	437599.13	245.02	439520	438089.83	550.45	439604	438475.87	559.11	439981	438700.83	563.75
		rnd	441164	438009.43	1585.11	440631	437785.9	1314.63	440542	437932.27	1125.77	439760	437867.2	1419.78
	50	2op	437925	437516.9	154.13	439430	438004.53	400.46	439733	438227.27	579.66	439270	438222.53	409.13
	20	rnd	441893	438084.6	1347.49	440214	438006.27	1631.42	440506	438101.57	1228.2	441312	438120.8	1375.81
		2op	437955	437584.73	143.57	438658	437924.8	293.77	438912	438061.2	357.87	439683	438632.57	590.77

Table A.576: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440558	438187	1579.08	440628	437867.07	1240.08	440594	437995.9	1293.41	440248	437998.63	1326.1
		2op	438113	437659	233.16	439504	438262.73	568.8	439488	438380.37	516.91	440117	438697.57	719.35
	50	rnd	440309	438006.37	1508.91	440202	437896.43	1335.84	440048	437651.67	1679.27	441867	437941.53	1484.43
51	20	2op	438652	437705.43	363.7	439310	438013.03	407.56	440104	438547.07	597	439767	438420.5	646.46
		rnd	439969	437842.3	1516.53	440242	437992.57	1704.14	440491	438014.4	1377.43	439965	437355.73	1565.51
	50	2op	438498	437593.67	246.65	438536	437869.23	335.62	440121	438360.67	630.29	439628	438390.57	529.87
	20	rnd	440191	437812.4	1182.59	441619	438202.83	1996.08	440938	437623.87	1675.67	440086	438065.03	1255.42
		2op	437988	437572.17	164.3	438816	438022.57	368.64	438875	438210.2	403.91	439575	438470.2	568.18

Table A.577: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441710	438013.17	1409.2	440091	438154.37	1010.64	439986	437645.17	1491.63	440741	438027.67	1483.75
		2op	437786	437520.47	102.88	437922	437706.87	121.62	438185	437763.63	218.69	440062	438196.83	529.44
	50	rnd	441895	438050.73	1701.22	440193	438259.5	1040.47	440434	438159.93	1392.4	440427	438118.4	1413.77
51	20	2op	437877	437495.9	125.03	438347	437804.1	208.81	438646	437885.8	321.98	439687	438228.27	590.01
		rnd	439889	437699.93	1416.24	440521	438380.97	1221.9	440522	438311.1	1161.32	441816	438078.8	1621.61
	50	2op	437713	437484.57	104.66	437816	437624.57	102.56	437852	437697.4	75.16	438091	437778.23	107
	20	rnd	440724	438025.2	1717.91	441629	438027.43	1899.97	442100	438276.1	1486.8	440708	438590.63	1610.65
		2op	437757	437483.07	115.91	437834	437676.57	103.52	438318	437800	143.71	438254	437820.67	184.29

Table A.578: *bx842596_7*: basicRRGA+IM: 500 – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440518	438237.9	1555.79	441010	438093.6	1445.16	439667	438062.7	1052.53	440648	437602.77	1565.82
		2op	437694	437532.5	101.43	438251	437671.37	235.28	438906	437869.97	367.59	439687	438273.93	596.99
	50	rnd	440886	438383.23	1224.18	440442	438127.4	1283.52	441499	437809.2	1440.45	440735	438124.83	1173.87
51	20	2op	437918	437558.13	162.41	438641	437948	243.02	438807	438049.67	325.38	440093	438558.03	573.43
		rnd	439900	437966.47	1217.93	440457	438017.4	1385.06	441559	438038.43	1160.48	440849	437935.9	1404.44
	50	2op	437846	437548.63	118.23	437816	437719.9	80.46	438790	437769.83	244.97	439469	438111.37	491.15
	20	rnd	440351	437703.63	1396.49	440559	438085.8	1478.47	440860	438231.53	1343.48	440286	437720.87	1612.93
		2op	437874	437623.63	126.77	438702	437946.33	278.09	438713	438003.9	352.6	439682	438275.7	542.49

Table A.579: *bx842596_7*: basicRRGA+IM: 5000 – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441686	437494.33	1731.2	439785	436974.07	1461.95	441218	437522.33	1733.37	439118	436875.57	1145.86
		2op	437597	437406.2	37.04	437625	437449.4	82.13	437655	437501.27	87.27	437800	437594.53	99.7
	50	rnd	440571	437587.43	1556.73	440287	437711.73	1594.45	439368	437053.03	1670.26	440146	437157.37	1626.69
51	20	2op	437578	437416.47	54.32	437578	437407.2	35.31	437655	437479.53	89.94	437857	437596.2	103.47
		rnd	440496	437135.93	1731.61	440320	437373.43	1558.86	439644	436821.17	1276.56	440858	437350.67	1473.43
	50	2op	437600	437408.9	39.12	437702	437458.87	90.29	437704	437540.8	93.98	437949	437672.43	96.99
	20	rnd	439084	437141.63	1293.09	439445	437298.7	1377.19	439070	437333	1218.75	439446	436894.87	1546.75
		2op	437476	437402.8	16.57	437578	437428.13	53.25	437691	437496.2	98.24	437757	437621.37	96.26

Table A.580: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440319	437301.53	1329.88	440097	437321	1368.05	439995	437661.3	1555.36	439635	436937.07	1732.31
		2op	437609	437416.7	57.32	437625	437476.33	86.71	437667	437495.2	103.81	437893	437579.23	105.89
	50	rnd	439977	437562.13	1352.1	439797	437325.93	1974.14	439689	437348.9	1444.76	439823	436852.27	1701.15
51	20	2op	437398	437398	0	437578	437432.83	62	437633	437462.7	80.71	437757	437597.93	85.5
		rnd	439363	437162.57	1419.09	440532	437395.13	1317.38	439833	437563.3	1286.39	440048	437460.53	1457.87
	50	2op	437573	437413.1	37.38	437650	437479.93	93.2	437702	437493.67	79.03	437956	437635.57	112.63
	20	rnd	440757	437610.33	1421.07	439733	437393.63	1503.32	439554	436892.43	1556.52	439491	437212.43	1294.19
		2op	437573	437405.17	32.53	437625	437448.73	81.69	437655	437532.73	81.16	438004	437612.7	129.75

Table A.581: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115476	114848.77	473.47	115520	114787.3	411.92	116048	114915.63	607.85	115847	114779.9	490.4
		2op	115856	115339.17	233.17	115993	115448.47	262.05	116037	115437.6	255.04	116198	115489.17	302.87
	50	rnd	115595	114644.13	531.2	115829	114841.9	548.12	115773	114741.53	590.74	115741	114919.03	543.1
51	20	2op	115814	115281.6	177.93	116182	115408.03	320.1	115837	115347.73	214.06	116076	115480.1	255.74
		rnd	115865	114922.27	620.52	115703	114827.43	600.92	115915	114863.5	531.22	115718	114831.5	461.82
	50	2op	116001	115356.73	224.08	115672	115308.8	148.01	115835	115356.17	215.73	115874	115413.53	187.26
	20	rnd	115457	114680.83	474.39	115852	114840.17	628.7	115742	114771.37	552	115991	114714.33	564.63
		2op	115638	115314.23	169.21	116079	115413.9	247.04	116051	115473.37	278.6	116036	115443.63	279.55

Table A.582: $j02459_7$: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115458	114591.87	554.29	115871	114695.77	491.01	115919	114903.67	540.74	116104	114787.17	605.97
		2op	115999	115378.1	246.18	116110	115466.37	274.18	116056	115339.8	261.3	116037	115579.87	282.81
	50	rnd	115895	114798.37	493.23	115882	114902.63	578.3	115808	114945.37	506.68	116101	114811.57	637.89
51	20	2op	115745	115288.8	206.45	116004	115376.63	247.91	116081	115514.9	295.45	116087	115449.4	344.4
		rnd	115866	114839.37	549.46	115689	114816.43	531.73	115563	114722.27	424.97	115707	114643.83	546.51
	50	2op	115668	115251.9	206.33	116028	115365.03	279.74	115889	115382.37	182	115679	115399.4	139.62
	20	rnd	115748	114779.77	516.06	115654	114723.83	471.48	115784	114681.03	613.06	115856	114726.9	599.13
		2op	115717	115204.03	160.82	116095	115387.77	221.5	115983	115393.4	233.69	115921	115422.57	234.12

Table A.583: $j02459_7$: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115506	114757.2	519.4	115902	114818.83	572.51	115883	114830.37	512.53	116016	114861.53	507.59
		2op	115605	115303.03	188.03	115697	115323.93	183.37	115716	115321.27	184.26	115746	115383.07	170.52
	50	rnd	115853	114681.63	568.23	115749	114849.53	543.94	115980	114765.1	574.23	115782	114556.93	599.2
51	20	2op	115633	115237.33	162.63	115916	115319.83	186.05	116064	115328.4	187.52	116012	115479.43	202.2
		rnd	115779	114813.8	526.51	115603	114758.87	587.84	115689	114767.77	526.49	116188	115045	530.95
	50	2op	115638	115281.83	178.03	115643	115328.17	167.73	115763	115367.43	161.58	115814	115407.53	181.65
	20	rnd	115844	114667.83	502.41	115918	114834.27	574.91	115937	114757.47	578.53	115958	114677.1	604.68
		2op	115649	115264.37	168.49	115647	115327.53	119.5	115803	115391.37	136.14	115841	115444.53	174.6

Table A.584: $j02459_7$: basicRRGA+IM: 500 – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	116336	114923.13	547.13	115668	114769.43	502.07	115631	114709.23	494.45	116112	114802.77	630.55
		2op	115724	115323.93	188.37	115758	115369.3	167.5	116063	115436.5	234.1	116018	115486.77	244.59
	50	rnd	116023	114788.33	661.94	115509	114729.63	484.12	116025	114870.5	597.29	115828	114820.53	526.63
51	20	2op	115669	115343.9	148.11	115771	115354.7	114.94	116057	115462.17	247.33	116307	115593.43	323.91
		rnd	115865	114714.13	582.72	116031	114889.9	416.08	115571	114709.27	562.36	115580	114725.9	585.08
	50	2op	115649	115281.77	158.32	115804	115382.5	177.04	115633	115448.73	123.74	116203	115530.27	286.5
	20	rnd	115772	114717.57	666.37	116244	114944.07	601.74	115950	114980.83	485.54	115549	114791.8	585.64
		2op	115816	115374.2	168.6	115849	115427.67	136.31	116082	115510.37	227.2	115980	115544	192.54

Table A.585: $j02459_7$: basicRRGA+IM: 5000 – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115463	114669.77	505.84	115397	114591.5	427.19	115532	114431.13	577.38	115225	114464.47	449.59
		2op	115508	115139.9	167.64	115541	115157.83	180.69	115571	115250.8	217.51	115680	115315.6	216.46
	50	rnd	115371	114480.1	570.76	115353	114467.3	555.4	115687	114444.3	667	116029	114531.03	729.3
51	20	2op	115508	115095.93	112.41	115538	115160.17	171.91	115560	115197.2	192.61	115666	115275.17	201.52
		rnd	115743	114571.73	654.15	115199	114541	533.12	115612	114495.27	518.74	115719	114575.07	500.76
	50	2op	115527	115139.53	170.47	115508	115098	97.33	115571	115178.87	185.01	115680	115291.17	202.39
	20	rnd	115770	114684.87	631.46	115738	114519.37	476.17	115750	114539.03	503.3	115531	114524.17	555.81
		2op	115571	115099.23	121.78	115538	115160.33	175.69	115552	115208.97	212.49	115666	115275.43	216.91

Table A.586: $j02459_7$: transRRGA – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115397	114412.77	532.71	115650	114397.93	588.39	115342	114613.2	607.92	115704	114588.17	608.25
		2op	115508	115078.37	81.17	115541	115175.7	191.63	115541	115160.13	157.17	115680	115292.9	207.17
	50	rnd	115590	114622.27	562.69	115878	114516.27	627.52	115619	114436.77	620.24	115778	114433.27	688.58
51	20	2op	115508	115081.4	81.2	115541	115173.63	195.21	115560	115248.43	210.61	115560	115221.13	170.91
		rnd	115522	114533.27	562.5	115347	114432.7	507.1	115943	114583.03	663.3	115757	114668.13	597.78
	50	2op	115527	115109.03	138.69	115527	115191.73	196.85	115571	115199.5	203.97	115666	115233.07	212.65
	20	rnd	115652	114341.77	588.29	115483	114729.77	540.07	115350	114354.6	634.12	115445	114584.6	579.49
		2op	115519	115109.2	136.49	115587	115253.6	225.98	115571	115178.1	180.46	115680	115215.23	183

Table A.587: $j02459_7$: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38604	38239.13	233.14	38579	38250.9	179.72	38657	38182.07	251.57	38639	38253.63	203.55
		2op	38442	38361.63	66.45	38552	38339.37	117.92	38553	38366.77	95.9	38504	38298.23	140.24
	50	rnd	38449	38235.9	144.81	38646	38252	248.91	38483	38162.8	188.65	38660	38175.27	276.58
51	20	rnd	38465	38368.47	63.41	38443	38336.27	124.99	38570	38362.77	120.87	38572	38293.97	200.99
		2op	38555	38258.2	226	38642	38301.7	187.14	38474	38221.2	185.42	38558	38289.57	156.26
	50	rnd	38418	38390	24.51	38437	38380.2	44.13	38451	38372.7	61.19	38565	38369.83	81.44
	20	rnd	38490	38230.17	158.87	38548	38322.17	161.1	38675	38224.67	199.67	38649	38274.63	245.65
		2op	38437	38404.17	24.72	38495	38379.73	61.96	38555	38385.1	76.5	38451	38350.23	77.96

Table A.588: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38578	38237.7	236.59	38520	38240	182.96	38557	38282.87	213.91	38558	38237.73	216.89
		2op	38456	38359.53	73.96	38580	38331.93	158.92	38561	38349.33	120.79	38523	38290.87	122.1
	50	rnd	38597	38218.1	210.07	38544	38261.53	191.55	38611	38243.8	218.92	38531	38196.27	210.16
51	20	rnd	38456	38371.37	86.39	38557	38379.73	75.55	38548	38331.27	131.77	38511	38266.13	132.53
		2op	38574	38282.6	149.58	38556	38232.9	204.59	38522	38272.83	185.64	38609	38282.73	217.24
	50	rnd	38440	38387.43	39.86	38432	38386.77	55.8	38441	38395.3	44.47	38454	38365.23	98.95
	20	rnd	38514	38240.53	223.95	38484	38271.3	151.93	38534	38273.07	163.29	38668	38273.47	191.83
		2op	38482	38397.4	31.9	38502	38383.8	56.01	38543	38368.97	85.76	38438	38324.23	102.12

Table A.589: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38535	38139.17	205.14	38632	38310.63	176.72	38566	38305.7	231.69	38507	38266.9	158.51
		2op	38441	38398	15.91	38437	38399.2	30.69	38499	38401.3	33.8	38442	38409.1	25.65
	50	rnd	38573	38325.47	158.57	38599	38295.37	169.99	38644	38319.97	160.29	38644	38259.1	206.17
51	20	rnd	38437	38401.83	26.29	38437	38400.53	23.59	38529	38415.2	38.87	38500	38397.2	58.95
		2op	38639	38273.8	200.47	38565	38299.07	178.77	38647	38298.07	183.45	38604	38315.77	144.07
	50	rnd	38437	38406.17	12.22	38437	38412.17	7.29	38442	38418.93	16.18	38442	38429.3	14.44
	20	rnd	38568	38202.97	211.43	38667	38331.47	176.26	38668	38286.43	214.37	38540	38278.87	176.98
		2op	38437	38413.9	11.54	38442	38432.57	14.35	38442	38437.77	8.92	38442	38434.73	10.42

Table A.590: *m15421_5*: basicRRGA+IM: 500 – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38637	38192.53	231.48	38610	38212.93	227.82	38649	38330.37	165.47	38608	38309.9	115.69
		2op	38437	38406.77	15.92	38442	38422.43	14.87	38442	38424.37	15.48	38442	38408.23	38.74
	50	rnd	38657	38295.1	223.68	38518	38259.17	159.74	38627	38277.1	180.79	38638	38363.5	133.45
51	20	rnd	38437	38416.2	14.19	38442	38430.43	11.12	38442	38422.67	14.32	38441	38400.27	36.06
		2op	38570	38266.33	143.47	38618	38283.27	166.89	38616	38336.97	130.89	38519	38265.27	184.58
	50	rnd	38442	38416.43	14.95	38442	38439.47	7.13	38442	38441.17	1.9	38442	38416.57	13.78
	20	rnd	38636	38269.6	189.62	38657	38346.63	129.84	38564	38265.53	205.88	38546	38299.83	159.7
		2op	38442	38426.37	13.2	38442	38441.67	1.27	38442	38439.77	4.39	38456	38418.37	20.54

Table A.591: *m15421_5*: basicRRGA+IM: 5000 – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38544	38022.8	265.91	38478	38123.07	224.5	38548	38120.6	224.2	38494	38112.33	256.8
		2op	38409	38347.13	69.17	38409	38390.1	39.2	38414	38406.93	5.89	38509	38405.13	31.55
	50	rnd	38546	38064.13	212.94	38543	38111.33	243.97	38482	38147.1	222.65	38582	38156.93	245.01
51	20	rnd	38409	38323.13	79.06	38409	38394.63	29.82	38414	38406.17	6.81	38437	38410.43	5.47
		2op	38407	38089.43	224.07	38567	38200.8	275.15	38558	38146.17	304.02	38652	38254.4	218.55
	50	rnd	38409	38345.1	70.83	38414	38401.57	10.16	38409	38406.83	5.68	38418	38406.33	17.47
	20	rnd	38399	38073.83	219.86	38658	38146.2	282.96	38557	38178.23	237.88	38573	38203.37	205.89
		2op	38404	38331.3	77.01	38409	38399.33	9.96	38414	38408.27	4.23	38414	38409.63	1.9

Table A.592: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38447	38041.17	232.38	38655	38118.53	248.04	38525	38088.67	222.02	38533	38178.97	235.94
		2op	38404	38302	79.04	38409	38392.2	28.84	38413	38406.1	6.8	38437	38407.57	21.21
	50	rnd	38416	38134.8	197.79	38543	38082.33	198.38	38443	38172.47	219.17	38569	38189.2	277.33
51	20	rnd	38404	38324.17	80.26	38414	38399.2	10.6	38414	38406.97	5.79	38437	38406.93	12.47
		2op	38432	38035.33	183.67	38495	38203.97	210.72	38536	38170.53	212.88	38497	38171.93	203.54
	50	rnd	38404	38323.3	76.06	38414	38402.8	10.34	38409	38407.77	3.44	38437	38403.13	35.03
	20	rnd	38428	38044.73	192.52	38561	38171.4	228.03	38526	38155.97	256.86	38518	38134.17	178.54
		2op	38404	38338.67	73.18	38414	38396.33	11.84	38414	38408.5	2.01	38418	38410.23	2.42

Table A.593: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47958	47442.1	246.54	47910	47457.73	328.28	48034	47506.57	254.23	47862	47478.5	275.42
		2op	47810	47510.1	227.39	47836	47591.7	156.48	47976	47571.23	216.24	47830	47590.47	190.57
	50	rnd	47919	47553.93	248.13	47907	47546.33	290.85	47847	47492.97	263.06	47860	47546.53	276.49
51	20	2op	47758	47530.4	209.07	47758	47603.07	150.08	47803	47590.6	191.13	47829	47563.17	233.13
		rnd	47844	47511.87	235.5	47840	47462.87	312.05	48021	47559.57	289.43	47920	47602.83	249.04
	50	2op	47691	47452.17	169.17	47760	47549.47	180.36	47814	47634.97	110.17	47874	47626.13	139.33
	20	rnd	47873	47567.67	299.28	47858	47553.93	283.84	47846	47552	216.81	47978	47625.93	244.84
		2op	47758	47591.83	145.5	47800	47632.57	117.34	47814	47592.87	126.07	47810	47600.83	126.17

Table A.594: $m15421_6$: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47872	47511.03	259.24	47855	47384.67	379.32	47923	47508.4	349.01	47980	47642.7	180.83
		2op	47763	47491.33	230.3	47830	47589.53	186.6	47830	47617.13	141.89	47813	47561.47	197.34
	50	rnd	47885	47558.63	191.98	47960	47535.07	263.27	47973	47487.47	364.2	48034	47412.73	263.32
51	20	2op	47758	47550.67	174.34	47830	47570	181.56	47810	47593.13	145.37	47821	47541.27	251.04
		rnd	47881	47514.63	263.59	47879	47542.17	278.37	47950	47567.6	197.7	47850	47560.9	230.73
	50	2op	47758	47461.5	207.32	47748	47562.77	169.23	47758	47637.9	117.01	47758	47608.83	130.76
	20	rnd	47939	47492.53	281.97	48025	47560.87	277.54	48048	47516.03	332.89	47973	47423.1	347.32
		2op	47758	47580.6	137.58	47746	47583.97	156.61	47805	47636	106.96	47829	47592.2	116.38

Table A.595: $m15421_6$: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47842	47521.57	217.73	47959	47540.63	228.46	47917	47540.8	268.46	47982	47561.83	239.88
		2op	47691	47403.87	179.76	47758	47597	144.47	47758	47623.23	108.22	47758	47634.97	62.98
	50	rnd	47919	47559.2	291.25	48021	47590.63	229.03	47870	47532.1	215.1	47949	47467.83	287.33
51	20	2op	47733	47547.23	159.89	47758	47641.3	45.21	47758	47628.7	61.38	47821	47636.6	105.47
		rnd	47921	47543.03	276.09	47958	47500.57	363.48	48052	47550.93	267.71	47867	47470.3	267.93
	50	2op	47691	47447.1	177.83	47733	47596.87	101.12	47636	47629.83	7.62	47636	47634.23	4.49
	20	rnd	47942	47542.7	241.5	48049	47601.5	240.16	47907	47501.7	254.71	47864	47502.4	297.15
		2op	47675	47597.27	99.95	47636	47631.97	6.73	47691	47634.57	12.46	47636	47633.53	11.92

Table A.596: $m15421_6$: basicRRGA+IM: 500 – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48023	47521.63	240.03	48052	47475.37	261.98	47919	47604.2	211.64	47895	47538.77	191.2
		2op	47758	47513.63	175.37	47758	47626.5	34.66	47758	47641.2	52.82	47758	47685.33	107.4
	50	rnd	47949	47574.53	195.74	47937	47602.73	241.99	47977	47561.1	219.98	47964	47506.87	373.21
51	20	rnd	47949	47574.53	195.74	47937	47602.73	241.99	47977	47561.1	219.98	47964	47506.87	373.21
		2op	47691	47629.07	26.22	47636	47616.67	42.52	47758	47626.9	48.55	47814	47653.17	104.12
	50	rnd	47964	47568.33	277.04	47947	47575.93	231.85	48048	47596.8	235.08	47872	47522.37	269.27
	20	rnd	47964	47568.33	277.04	47947	47575.93	231.85	48048	47596.8	235.08	47872	47522.37	269.27
		2op	47636	47564.47	132.29	47636	47631.53	12.67	47636	47632.2	12.54	47758	47724.07	50.03
	50	rnd	48048	47472.07	262.04	47892	47549.87	300.91	47889	47607.37	178.32	47921	47442.03	306.39
	20	rnd	47636	47620.5	60	47636	47628.93	19.86	47636	47629.5	19.83	47758	47660.53	109.66
		2op												

Table A.597: $m15421_6$: basicRRGA+IM: 5000 – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47848	47417.2	361.19	47817	47417.67	241.54	47819	47441.47	215.33	47912	47422.97	272.33
		2op	47418	47263.27	57.03	47691	47339.7	97.19	47758	47377.47	144.31	47742	47521.87	180.81
	50	rnd	47830	47436.57	238.71	47852	47472.73	246.5	47832	47456.47	254.16	47823	47467.23	253.1
51	20	rnd	47635	47258.5	74.74	47675	47330	82.32	47742	47407.27	144.35	47758	47511.6	168.75
		2op	47801	47408.57	295.29	47773	47389.7	234.21	47916	47438.8	247.97	47805	47436.5	218.28
	50	rnd	47691	47260.37	84.52	47742	47346.97	98.97	47758	47425.07	156.53	47758	47554.33	173.94
	20	rnd	47755	47472.13	217.62	47844	47516.13	210.78	47812	47372.43	258.06	47864	47371.4	272.91
		2op	47416	47255.6	40.83	47691	47342.4	102.41	47675	47371.43	126.16	47758	47521.57	185.26

Table A.598: $m15421_6$: transRRGA – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47821	47522.13	186.11	47875	47493.47	237.24	47832	47460.43	256.3	47844	47414.13	256.48
		2op	47418	47263.9	50.63	47691	47325.73	81.85	47758	47397.7	149.8	47758	47515.83	182.22
	50	rnd	47830	47530.6	244.29	47801	47392.8	272.85	47821	47435.83	282.15	47844	47420.73	275.25
51	20	rnd	47416	47246.8	36.28	47691	47358.43	103.11	47758	47437.87	180.11	47742	47524	187.52
		2op	47821	47508.1	235.87	47757	47444.77	240.05	47828	47396.47	294.38	47849	47479.23	286.64
	50	rnd	47303	47247.5	25.26	47635	47317.43	78	47742	47392.7	124.99	47742	47439.77	160.02
	20	rnd	47832	47524.1	230.05	47839	47466.17	257.75	47832	47376.2	311.63	47848	47420.23	290.53
		2op	47305	47240.53	17.25	47675	47341.33	96.54	47758	47368.5	113.65	47758	47493.83	189.17

Table A.599: $m15421_6$: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54883	54313.73	331.51	55094	54404.8	401.01	54980	54376.03	342.41	54953	54289.8	400.53
		2op	54888	54664.97	94.31	54958	54646.53	159.36	54903	54625.07	157.14	54831	54567.17	152.46
	50	rnd	54965	54320.67	331.17	54943	54371.37	369.66	54851	54310.53	314.17	54871	54234.1	332.89
51	20	rnd	54744	54643.83	100.74	54818	54615.57	139.54	54894	54624.33	162.46	54920	54539.53	218.25
		2op	54818	54417.57	277.86	54906	54323.47	351.23	54746	54304.93	358.39	54876	54294.2	379.34
	50	rnd	54744	54692.83	41.28	54949	54647.47	110.27	54765	54684.07	50.74	54899	54672.47	111.48
	20	rnd	54703	54311.23	260.23	54870	54305.8	384.68	54994	54337.47	424.3	54866	54420.17	252.21
		2op	54745	54693.57	33.6	54924	54684.17	87.18	54920	54683.33	86.11	55006	54620.63	160.1

Table A.600: *m15421_7*: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54877	54360.23	326.52	54892	54349.77	356.26	54898	54362.93	299.94	54924	54379.9	367.99
		2op	54870	54639.2	82.47	54859	54640.8	126.98	54944	54630.03	123.01	54866	54578.47	153.08
	50	rnd	54860	54360.23	337.47	54940	54432.13	310.01	54825	54415.37	258.53	54919	54357.5	326.9
51	20	rnd	54899	54673.27	103.74	54900	54665.87	103.16	54931	54584.5	167.14	54900	54602.9	176.99
		2op	54815	54378.6	220.87	55020	54414.4	382.47	54937	54427.13	286.69	54947	54322.53	307.59
	50	rnd	54805	54692.73	36.97	54939	54681.7	75.47	54870	54670.5	62.57	54802	54606.33	132.48
	20	rnd	54908	54412.3	361.04	54959	54453.6	307.03	54915	54382.67	315	54993	54483.73	312.28
		2op	54745	54695.83	44.8	54959	54698.2	82.81	54861	54676.77	62.91	54809	54638.9	108.72

Table A.601: *m15421_7*: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54963	54444	280.54	54836	54441.07	237.96	54925	54328.7	375.04	54966	54287.13	311.46
		2op	54745	54710.97	24.93	54745	54715.07	25.04	54860	54700.17	54.09	54745	54690.17	42.95
	50	rnd	54908	54381.87	358.21	54798	54354.9	298.82	55123	54346.83	378.18	54901	54477.63	299.1
51	20	rnd	54753	54714.43	32.75	54749	54722	21.63	54745	54710.9	24.07	54948	54669.13	81.1
		2op	54855	54310.53	373.12	55125	54326.57	364.83	54873	54389.63	263.4	54862	54336.43	349.01
	50	rnd	54745	54734.13	17.49	54754	54745.4	2.46	54754	54742.17	13.04	54754	54734.43	18.72
	20	rnd	54923	54385.73	309.95	54876	54256.73	356.42	55165	54434.6	358.83	54911	54319.9	382.19
		2op	54745	54737.47	15.5	54754	54745.7	6.97	54754	54746.57	7.42	54754	54741.5	12.26

Table A.602: *m15421_7*: basicRRGA+IM: 500 – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54974	54334.6	378.2	54786	54322.63	354.29	54870	54478.83	271.36	54962	54395.47	334.87
		2op	54754	54725.23	20.09	54753	54724.1	23.79	54754	54717.27	36.96	54749	54694.83	47.22
	50	rnd	54908	54271.3	328.88	54872	54351.43	290.61	54832	54434.43	271.32	54947	54464.57	297.68
51	20	rnd	54745	54724.07	29.18	54764	54739.97	12.36	54754	54712.83	45.7	54908	54707	73.15
		2op	54963	54345.3	343.89	54897	54313.43	285.3	54986	54507.53	342.01	54905	54343.57	308.98
	50	rnd	54754	54744.2	6.07	54754	54748.87	4.57	54754	54749.73	4.51	54916	54717.97	60.3
	20	rnd	54836	54302.8	316.54	54846	54346.3	306.4	55093	54395	440.08	54978	54422.67	359.76
		2op	54754	54744.2	7.58	54754	54750.1	4.54	54764	54749.67	7.06	54927	54713	68.7

Table A.603: *m15421_7*: basicRRGA+IM: 5000 – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54688	54201.37	374.89	54756	54147.5	420.96	54762	54180.17	427.76	54712	54082.07	355.92
		2op	54745	54711.63	14.91	54745	54723.57	19.51	54753	54741.1	12	54754	54739.57	18.25
	50	rnd	54778	54267.03	331.34	54852	54237.4	284.09	54779	54297.97	296.91	54737	54235.77	249.79
51	20	rnd	54744	54710.2	13.48	54747	54728.87	19.56	54745	54739.3	13.9	54754	54739.63	17.35
		2op	54807	54244.47	364.03	54815	54138.37	373.15	54778	54247.63	395.17	54832	54248.47	362.42
	50	rnd	54745	54716.73	18.23	54745	54725.03	19.77	54745	54736.8	16.35	54754	54743.2	10.73
	20	rnd	54683	54157.8	301.34	54794	54291.37	324.85	54897	54206.57	357.84	54850	54277.93	329.83
		2op	54744	54707.67	9.88	54745	54731.23	18.59	54745	54735.03	16.73	54754	54743.37	13.71

Table A.604: *m15421_7*: transRRGA – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54888	54454.3	284.36	54840	54210.13	445.14	54790	54277.27	329.59	54682	54250.2	276.5
		2op	54745	54711.7	14.88	54745	54719.37	19.76	54747	54726.17	31.09	54754	54737.37	21.77
	50	rnd	54702	54143.67	336	54833	54309.5	429.02	54822	54224.3	403.63	54795	54244.73	318.86
51	20	rnd	54744	54707.73	9.87	54746	54726.43	19.86	54747	54735.33	17.12	54754	54737.13	20.16
		2op	54826	54280.63	361.31	54857	54164.63	427.44	54702	54259.2	327.2	54763	54380.57	320.64
	50	rnd	54745	54710.43	13.5	54745	54729.2	19.21	54745	54736.83	19.66	54754	54736.53	25.96
	20	rnd	54781	54354.63	214.35	54838	54274.57	296.54	54855	54303.6	379.44	54690	54132.33	353.45
		2op	54745	54709.13	11.94	54745	54724.93	19.87	54746	54742.07	9.95	54754	54743.37	12.8

Table A.605: *m15421_7*: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11187.17	141.72	11478	11232.47	143.99	11478	11217.9	138.19	11411	11206.43	138.12
		2op	11305	11139.23	107.1	11373	11184.1	123.22	11394	11193.87	125.08	11394	11183.37	127.76
	50	rnd	11478	11164.17	153.25	11478	11176.83	165.59	11478	11235.4	149.6	11478	11185.8	167.58
51	20	rnd	11478	11186.6	153.06	11478	11180.87	148.11	11394	11184.97	159.31	11411	11222.37	125.81
		2op	11285	11061.5	68.6	11346	11086.43	79.78	11348	11157.33	112.4	11338	11198.37	110.18
	50	rnd	11478	11228.03	156.51	11478	11205	162.22	11478	11194.8	153.32	11478	11262.5	115.86
	20	rnd	11285	11097.33	79.07	11478	11152.93	118.56	11478	11222.6	95.61	11394	11199.27	126.66
		2op												

Table A.606: $x60189_4$: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11219.17	137.24	11478	11186.63	178.76	11413	11148.67	162.4	11478	11217.6	166.39
		2op	11348	11152.07	109.38	11478	11235.17	119.66	11348	11216.13	121.94	11411	11226.7	139.68
	50	rnd	11478	11221.87	147.93	11394	11223.03	129.16	11478	11227.43	155.85	11478	11224.37	174.25
51	20	rnd	11413	11116.53	117.29	11478	11236.7	95.76	11413	11221.7	110.98	11478	11208.6	129.82
		2op	11478	11216.33	122.14	11478	11195.17	171.38	11348	11153.83	135.86	11478	11188.93	161.77
	50	rnd	11213	11054.2	53.03	11305	11126.73	131.86	11305	11112.43	100.14	11348	11186.77	133.87
	20	rnd	11478	11185.63	112.76	11411	11158.63	158.98	11411	11201.03	135.59	11478	11235.43	177.12
		2op	11285	11109.43	63.16	11332	11176.13	94.4	11373	11173.17	128.51	11305	11195.03	115.63

Table A.607: $x60189_4$: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11372	11203.9	117.97	11394	11193.43	131.85	11348	11174.17	131.36	11478	11220.17	124.42
		2op	11118	11075.57	45.35	11305	11110.67	56.5	11346	11138.3	84.25	11478	11217.23	109.05
	50	rnd	11373	11134.17	148.12	11478	11257.43	133.89	11478	11311.93	121.82	11478	11279.57	102.51
51	20	rnd	11240	11088.1	57.48	11373	11156.27	96.84	11305	11202.97	118.23	11394	11238.93	95.86
		2op	11478	11248.67	123.61	11411	11200.17	182.45	11478	11205	153.49	11413	11230	126.61
	50	rnd	11109	11079.87	42.68	11109	11109	0	11305	11144.93	73.85	11394	11256.2	80.1
	20	rnd	11478	11222.07	142.37	11478	11226	130.03	11478	11216.1	177.83	11478	11271.03	125.82
		2op	11256	11101.63	41.36	11305	11136.77	63.93	11373	11221.67	90.68	11373	11293.6	33.77

Table A.608: $x60189_4$: basicRRGA+IM: 500 – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11169.5	159.87	11478	11209.23	117.38	11478	11236.13	123.93	11478	11234.8	154.53
		2op	11305	11075.67	63	11305	11157.17	101.37	11373	11215.03	100.89	11305	11231.03	90.08
	50	rnd	11478	11220.13	114.95	11478	11280.27	123.02	11478	11258.23	123.44	11478	11252.8	108.09
51	20	rnd	11240	11086.17	57.83	11332	11183.4	97.11	11373	11247.57	82.86	11394	11280.53	65.79
		2op	11394	11179	140.81	11478	11251.23	112.6	11478	11237.77	133.68	11478	11243.77	146.78
	50	rnd	11109	11093.67	34.87	11305	11121.4	47.26	11305	11167.13	84.71	11373	11256.17	67.78
	20	rnd	11478	11229.03	136.98	11478	11283.47	112.6	11478	11313.37	118.04	11478	11305.53	100.68
		2op	11256	11113.9	26.84	11373	11205.47	94.95	11394	11268.43	80.87	11411	11265.87	78.36

Table A.609: $x60189_4$: basicRRGA+IM: 5000 – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11114	170.05	11372	11085.93	150.36	11478	11168.17	199.48	11478	11163.9	177.72
		2op	11153	11031	38.28	11151	11076.97	47.04	11285	11118.4	51.79	11243	11106.47	40.48
	50	rnd	11411	11082.73	227.08	11478	11149.97	148.11	11394	11148.37	143.41	11478	11195.53	164.65
51	20	rnd	11109	11042.27	43.72	11109	11072.2	45.84	11151	11099.67	30.32	11346	11126.9	73.64
		2op	11343	11141.23	129.01	11372	11152.87	175.32	11478	11195.37	154.19	11478	11154.53	189.29
	50	rnd	11109	11038.6	39.56	11109	11070.5	45.55	11285	11116.07	38.69	11305	11106	68.61
	20	rnd	11291	11117.7	154.69	11478	11156.93	169.04	11411	11168.43	179.4	11478	11193.43	161.92
		2op	11109	11039	44.05	11109	11078.33	44.11	11109	11102.87	19.97	11153	11102.8	26.15

Table A.610: $x60189_4$: transRRGA – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11394	11164.63	157.59	11478	11180.8	173.66	11478	11132.87	206.98	11478	11183.07	212.82
		2op	11109	11045.33	45.09	11153	11065.7	48.03	11109	11095.2	32.3	11305	11141.47	81.36
	50	rnd	11394	11152.33	155.76	11411	11200.63	149.21	11478	11175.57	156.05	11478	11228.43	118.68
51	20	rnd	11109	11052.4	47.18	11109	11081.4	42.88	11285	11105.03	53.43	11305	11123.83	59.99
		2op	11340	11089.83	182.71	11411	11165.47	162.12	11478	11225.47	134.59	11478	11109.27	211.05
	50	rnd	11109	11045.33	43.08	11109	11072.2	45.84	11305	11114.4	45.08	11305	11110.2	73.48
	20	rnd	11372	11136.03	187.65	11478	11130.63	166.75	11411	11228.5	155.21	11478	11195.83	199.13
		2op	11109	11037.07	40.58	11109	11087.53	39.58	11109	11096.73	31.81	11285	11103.23	62.41

Table A.611: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14137	13753.8	195.36	14161	13853.97	174.53	14161	13879.47	150.18	14133	13870.03	130.56
		2op	14038	13894.93	87.15	14055	13925.8	130.22	14038	13875.9	144.74	14137	13854.97	151.97
	50	rnd	14139	13857.3	158.27	14100	13854.7	159.84	14139	13880.73	134.71	14161	13892.27	176.39
51	20	rnd	14038	13899.97	111.48	14038	13938.8	90.93	14157	13912.53	152.43	14157	13910.8	176.9
		2op	14161	13873.37	167.04	14139	13841.93	171.42	14026	13783.03	180.9	14139	13782.93	186.88
	50	rnd	14038	13858.6	90.09	14038	13963.27	77.17	14038	13917.8	106.13	14157	13940.9	100.03
	20	rnd	14139	13842.83	151.21	14079	13844.13	171.37	14161	13895.13	135.58	14161	13905.53	172.57
		2op	14018	13892.83	101.32	14038	13949.43	81.69	14038	13935.03	109.18	14157	13961.97	100.83

Table A.612: $x60189_5$: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14036	13799.63	158.86	14139	13827.7	164.72	14161	13888.93	166.99	14103	13853.83	116.47
		2op	14038	13885.23	92.09	14038	13950.5	84.81	14047	13932.03	81.21	14157	13868.73	195.46
	50	rnd	14161	13857.2	196.33	14161	13876.23	168.14	14139	13877.33	173.56	14161	13822.13	168.5
51	20	rnd	14038	13906.7	98.37	14038	13911.67	137.55	14157	13966.7	97.66	14038	13841.8	160.6
		2op	14139	13836.73	162.67	14139	13865.9	146.28	14018	13852.8	111.21	14161	13852.93	183.26
	50	rnd	13995	13851.67	81.61	14038	13955.23	79.61	14038	13941.23	86.51	14038	13882.57	132.1
	20	rnd	14161	13853.7	184.95	14161	13879.4	163.28	14161	13854.9	144.65	14101	13888.83	121.14
		2op	14038	13895.5	91.69	14038	13959.07	80.51	14133	13955.23	103.31	14157	13949.43	106.17

Table A.613: $x60189_5$: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14133	13823.47	185.71	14161	13895.37	149.49	14139	13888.43	129.43	14139	13855.2	148.64
		2op	14038	13886.7	97.3	14038	13994.37	31.44	14038	13989.17	34.97	14038	13956.77	77.22
	50	rnd	14139	13833.57	179.34	14157	13866.53	168.47	14133	13842.83	158.24	14137	13896.33	128.93
51	20	rnd	14038	13937.47	88.93	14038	13992.47	52.06	14064	13976.2	58.87	14133	13994.13	72.1
		2op	14137	13876.5	166.64	14161	13896.57	165.08	14157	13842.6	146.2	14161	13847.73	201.11
	50	rnd	14038	13917.63	96.95	14038	13986.7	36.07	14038	13986.23	33.53	14064	13990.3	25.55
	20	rnd	14137	13836.23	151.06	14137	13865.13	168.53	14161	13920.83	126.7	14157	13949.37	140.25
		2op	14018	13957.8	62.63	14038	13988.37	31.51	14064	13993.23	33.4	14133	14012.93	47.59

Table A.614: $x60189_5$: basicRRGA+IM: 500 – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13822.53	169.93	14157	13907.4	152.73	14133	13901.6	147.12	14161	13894.2	190.59
		2op	14038	13961.1	73.71	14038	14000.57	30.47	14038	13992.33	30.98	14097	13987.57	46.53
	50	rnd	14161	13851.97	182.81	14157	13887.33	150.94	14139	13895.9	134.12	14161	13921.23	148.71
51	20	rnd	14038	13970.7	45.14	14157	14015.9	50.78	14133	14007.87	43.74	14157	13976.23	77.47
		2op	14066	13818.73	162.09	14161	13885.87	191.74	14161	13902	150.36	14161	13933.13	154.49
	50	rnd	14038	13941.47	78.18	14038	13979.87	33.12	14133	13987.8	38.6	14038	13985.1	29.57
	20	rnd	14137	13871.2	147.67	14157	13944.43	129.7	14133	13920.63	132.65	14161	13959.83	127.22
		2op	14038	13966.6	52.16	14038	13982.3	27.03	14038	13993.17	28.16	14133	13999.1	46.55

Table A.615: $x60189_5$: basicRRGA+IM: 5000 – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14127	13823.73	176.78	14067	13802.13	173.59	14009	13754.97	169.22	14089	13785.13	168.76
		2op	13938	13790.63	78.58	13995	13885.33	67.5	14038	13921.07	70.65	14038	13940.87	57.88
	50	rnd	14127	13853.43	160.93	14038	13763.8	176.26	14105	13817.93	164.96	14067	13842.67	113.63
51	20	rnd	13938	13806.47	71.68	13995	13872.33	63.21	13968	13904.8	57.93	13995	13939.83	58.33
		2op	14127	13878.83	183.87	14133	13826.2	175.01	14060	13812.33	190.41	13998	13771.7	144.3
	50	rnd	14038	13797.1	80.71	14038	13892.33	65.04	13995	13940	46.29	14038	13950.83	50.51
	20	rnd	14067	13788.2	200.42	14127	13828.63	169.53	14127	13750	212.2	14127	13795.1	162.13
		2op	13932	13795.13	63.02	13968	13862.1	55.01	14038	13914.27	67.55	14038	13943.07	50.23

Table A.616: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14127	13793.9	183.63	14127	13836.77	219.55	14127	13828.67	185.42	14127	13840.43	176.2
		2op	13938	13797.2	79.49	13995	13874.77	72.1	14038	13920.17	85.46	14001	13938.33	69.52
	50	rnd	14103	13840.13	162.96	14105	13840.7	158.98	14127	13781.93	158.01	14002	13731.27	135.06
51	20	rnd	13938	13818.7	81.72	14038	13885.6	69.75	13968	13921.43	58.33	14038	13968.3	43.48
		2op	14004	13778.07	154.07	14089	13832.5	167.3	14105	13777.43	176.98	14105	13791.93	165.07
	50	rnd	13968	13818	78.25	13968	13874.07	57.15	14038	13941.93	47.58	14038	13948.23	43.55
	20	rnd	14038	13818.7	143.56	14060	13794.4	155.58	14091	13807.73	163.52	14127	13758	209.55
		2op	13938	13781.37	72.63	13968	13862.07	62.29	13968	13910.6	68.45	14038	13950.2	49.59

Table A.617: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18142	17910.07	152.98	18159	17878.9	168.74	18175	17920.23	165.28	18301	17920.27	215.67
		2op	18142	18012.7	43.49	18090	18004.1	37.62	18064	17966.93	82.49	18142	17937.7	169.46
	50	rnd	18175	17917.47	153.51	18176	17904.17	171.38	18275	17921.03	145.36	18126	17935.53	157.81
51	20	rnd	18142	18010.4	39.94	18063	17986.53	55.52	18142	17984.93	63.3	18142	17961.43	106.87
		2op	18301	17892.97	227.37	18165	17886.07	172.11	18301	17933.63	130.21	18156	17910.67	169.64
	50	rnd	18017	18012.37	14.37	18107	18016.93	19.47	18017	17990.67	45.05	18142	17991.73	63.36
	20	rnd	18165	17832.6	198.29	18292	17877.23	195.31	18170	17896.37	154.38	18176	17967.83	185.49
		2op	18142	18013.57	30.02	18025	17994.2	33.46	18142	17974.9	84.83	18064	17969.4	70.03

Table A.618: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17904.03	204.63	18136	17912.8	144.81	18186	17958.93	161.84	18152	17911.7	177.25
		2op	18064	18001.07	30.53	18142	17978.7	102.6	18142	17951.1	105.59	18107	17939.33	120.65
	50	rnd	18186	17902	200.05	18119	17904.77	176.53	18301	17975.37	148.6	18125	17924.03	115.07
51	20	rnd	18064	17993.13	35.35	18142	18010.97	58.46	18142	17972.23	91.41	18142	17939.43	134.72
		2op	18301	17918.6	200.92	18158	17907.37	175.89	18275	17926.27	150.69	18151	17937.47	191.91
	50	rnd	18017	18009.3	18.16	18017	18004.7	21.32	18017	17994.67	41.47	18025	17969.27	43.85
	20	rnd	18152	17912.03	173.11	18301	17931.9	160.53	18184	17946.8	135.08	18186	17906.4	184.57
		2op	18017	18004.5	21.28	18025	17995.83	58.91	18142	18001.73	64.58	18142	17973.4	74.02

Table A.619: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18171	17886.63	176.02	18165	17889.57	146.73	18172	17869.27	186.18	18142	17948.87	180.38
		2op	18017	18017	0	18017	18016.23	4.2	18017	18014.17	11.07	18041	17999.33	42.08
	50	rnd	18184	17958.5	169.67	18275	17885.17	217.1	18134	17880.37	183.5	18098	17867.37	208.4
51	20	rnd	18017	18017	0	18017	18015.83	6.39	18017	18005.5	36.16	18142	18002.87	43.13
		2op	18165	17925.47	144.99	18165	17931.77	131.34	18152	17930.23	191.81	18165	17902.3	184.92
	50	rnd	18017	18017	0	18017	18017	0	18017	18017	0	18017	18017	0
	20	rnd	18104	17908.6	132.84	18301	17867.17	187.4	18165	17965.6	130.54	18156	17932.03	144.07
		2op	18017	18017	0	18017	18017	0	18017	18017	0	18017	18017	0

Table A.620: $x60189_6$: basicRRGA+IM: 500 – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18125	17846.77	160.71	18165	17916.87	156.64	18125	17939.3	130.57	18165	17964.77	118.27
		2op	18017	18017	0	18017	18016.23	4.2	18017	18009.53	24.07	18142	18015.3	26.77
	50	rnd	18175	17919.6	188.57	18165	17886.57	202.24	18175	17928.03	143.67	18171	17955.97	162.81
51	20	rnd	18158	17861.33	168.27	18123	17933.83	148.83	18133	17911.47	160.34	18159	17902.77	141.47
		2op	18017	18017	0	18017	18017	0	18017	18017	0	18017	18017	0
	50	rnd	18261	17887.37	238.75	18158	17923.03	133.5	18165	17920.13	169.78	18125	17964.27	132.5
		2op	18017	18017	0	18017	18017	0	18017	18017	0	18017	18011.03	16.16

Table A.621: $x60189_6$: basicRRGA+IM: 5000 – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18105	17838.8	172.26	18090	17804.1	219.58	18105	17852.9	145.25	18119	17815.63	191.73
		2op	18017	18008.57	11.27	18017	18017	0	18017	18015.27	9.49	18017	18013.53	13.19
	50	rnd	18142	17865.17	178.05	18039	17800.27	145.82	18063	17830.9	164.45	18105	17817.43	151.33
51	20	rnd	18017	18005.5	11.7	18017	18016.23	4.2	18017	18017	0	18017	18017	0
		2op	18142	17815.03	170.52	18074	17793.5	183.2	18039	17805.4	201.81	18142	17873.4	171.98
	50	rnd	18017	18009.33	11.03	18017	18017	0	18017	18017	0	18017	18015.27	9.49
		2op	18046	17809.4	147.02	18184	17816.4	189.58	18074	17824.7	175.37	18039	17760.37	224.86
		2op	18017	18008.57	11.27	18017	18016.23	4.2	18017	18017	0	18017	18015.27	9.49

Table A.622: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18142	17845.17	189.92	18074	17844.03	166.68	18105	17822.33	172.48	18142	17893.6	164.06
		2op	18017	18003	13.5	18017	18017	0	18017	18015.27	9.49	18017	18013.53	13.19
	50	rnd	18184	17840.07	184.95	18090	17838.07	158.43	18142	17893.63	200.38	18142	17808.43	181.32
51	20	rnd	18017	18007.8	11.46	18017	18017	0	18017	18017	0	18017	18015.27	9.49
		2op	18142	17840.2	178.26	18013	17810.07	168.1	18142	17772.57	223.12	18090	17777.93	155.19
	50	rnd	18017	18010.1	10.72	18017	18015.27	9.49	18017	18017	0	18017	18013.53	13.19
		2op	18055	17809	146.32	18142	17868.33	179.28	18090	17815.83	199.84	18105	17849.93	204.84
		2op	18017	18002.43	11.27	18017	18016.23	4.2	18017	18015.27	9.49	18017	18017	0

Table A.623: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21218	20863.9	184.53	21200	20875.43	169.13	21175	20866.1	178.85	21156	20854.07	191.4
		2op	21187	20851.4	80.48	21109	20906.87	98.56	21125	20901.3	104.36	21168	20928.13	180.42
	50	rnd	21156	20772.93	244.04	21113	20856.43	168.67	21228	20811.7	216.38	21169	20860.53	225.1
51	20	2op	21115	20866.53	104.72	21120	20901.57	128.56	21207	20987.3	118.42	21139	20897.6	136.51
		rnd	21128	20881.8	193.81	21153	20857.9	183.22	21211	20928.47	181.55	21190	20866.93	154.55
	50	2op	20874	20824	17.56	20936	20839.2	34.08	21193	20863.97	105.45	21165	20874.17	135.82
	20	rnd	21170	20849.57	178.38	21166	20896.6	186.72	21128	20874.77	175.98	21177	20853.43	173.4
		2op	21187	20863.07	92.6	21154	20864.3	91.84	21199	20908.23	131.5	21193	20917.27	137.84

Table A.624: $x60189_7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21197	20836.97	228.45	21197	20832.13	194.54	21118	20843.87	177.3	21195	20881.53	199.9
		2op	21190	20876.63	112.84	21154	20914.23	142.31	21193	20917.93	166.31	21209	20883.47	185.19
	50	rnd	21149	20852.67	240.52	21121	20843.6	163.74	21206	20842.8	215.39	21208	20898.93	168.8
51	20	2op	21079	20865.13	71.77	21210	20914.07	145.79	21193	20964.43	165.04	21187	20953.27	143.81
		rnd	21257	20811.93	232.23	21109	20840.47	169.91	21197	20868.47	168.76	21190	20872.33	213.53
	50	2op	20984	20827.17	36.26	21025	20829.8	46.07	21106	20850.97	91.95	21174	20904.4	147.59
	20	rnd	21206	20850.63	186.96	21155	20859.2	183.3	21148	20865.5	160.33	21249	20899.73	187.56
		2op	20969	20832.6	30.67	21058	20853.43	78.39	21057	20905.9	85.82	21162	20921.9	94.09

Table A.625: $x60189_7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21212	20880.37	159.8	21215	20840.57	179.12	21206	20916.97	186.33	21186	20930.17	197.48
		2op	20987	20834.07	28.91	21187	20830.2	75.61	21187	20846.97	87.93	21187	20917.17	134.37
	50	rnd	21196	20874.33	176.51	21172	20909.4	140.48	21207	20888.53	222.96	21190	20893.97	148.88
51	20	2op	21046	20846.8	59.64	21193	20869.13	90.29	21210	20897.93	113.83	21199	20994.4	108.14
		rnd	21166	20877.63	149.72	21176	20846.8	192.94	21197	20882.27	146.39	21206	20934.9	191.6
	50	2op	20829	20829	0	21193	20841.13	66.46	20889	20830.6	11.13	21193	20936	125.06
	20	rnd	21218	20909.67	175.63	21206	20937.9	190.55	21166	20849.63	187.68	21190	20947.8	147.11
		2op	20977	20833.93	27.02	21193	20845.13	67.44	21193	20912.63	121.47	21210	21014.53	73.12

Table A.626: $x60189_7$: basicRRGA+IM: 500 – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21166	20855.27	212.58	21162	20915.23	158.46	21180	20886.8	171.32	21178	20922.4	178.08
		2op	20880	20830.3	9.51	21051	20862.23	67.18	21193	20951.77	118.05	21193	21015.67	96.2
	50	rnd	21157	20818.7	195.68	21176	20899	193.36	21174	20899.8	223.25	21145	20964.8	133.8
51	20	rnd	21035	20857.83	66.83	21193	20924.5	95.69	21193	21002.2	90.08	21193	21041.43	57.23
		2op	21200	20931.7	144.31	21168	20887.17	200.77	21218	20997.8	139.91	21271	20954.9	162.58
	50	rnd	20829	20829	0	20889	20833	15.22	21193	20873.33	102.86	21193	20995.93	96.74
	20	rnd	21117	20825.8	170.53	21187	20920.33	205.67	21207	20920.7	177.89	21165	20962.87	118.66
		2op	20889	20831	10.95	21193	20913	113.92	21193	20936.6	102.18	21193	21016.63	83.87

Table A.627: $x60189_7$: basicRRGA+IM: 5000 – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21193	20904.2	185.19	21168	20782.63	219.19	21139	20859.73	206.47	21199	20853.83	221.52
		2op	20829	20829	0	20829	20828.7	1.12	20829	20828.87	0.35	20997	20832.93	32.95
	50	rnd	21199	20835.33	234.14	21139	20855.13	180.06	21121	20883.27	161.07	21199	20858.53	214.7
51	20	rnd	20829	20829	0	20829	20828.87	0.35	20840	20829.3	2.04	21108	20846.8	59.99
		2op	21174	20786.13	286.51	21218	20814.8	208.68	21210	20854.93	198.52	21207	20897.07	213.08
	50	rnd	20829	20829	0	20829	20828.8	0.41	20969	20833.53	25.59	20867	20827.77	12.74
	20	rnd	21168	20838.83	215.19	21148	20870.5	182.28	21181	20887.8	169	21174	20855.27	225.18
		2op	20829	20829	0	20829	20828.87	0.35	20829	20827.6	7.29	20969	20833.67	25.56

Table A.628: $x60189_7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21185	20896.83	188.44	21170	20852.67	226.09	21185	20842.5	167.81	21185	20875.17	192.03
		2op	20829	20829	0	20829	20828.7	0.47	20829	20827.57	7.29	21101	20847.43	60.7
	50	rnd	21207	20883.37	191.12	21164	20824.47	182.28	21190	20858.83	206.06	21185	20807.63	187.35
51	20	rnd	20829	20829	0	20829	20828.83	0.38	20829	20829	0	20969	20832.27	26.83
		2op	21210	20898.27	192.68	21190	20852.07	209.84	21190	20845.97	221.03	21210	20800.1	239.71
	50	rnd	20829	20829	0	20829	20827.47	7.28	20829	20828.87	0.35	20867	20820.4	40.83
	20	rnd	21190	20836.67	199.35	21139	20834.53	174.47	21210	20928.67	203.21	21154	20842.73	214.99
		2op	20829	20829	0	20829	20828.8	0.41	20829	20828.9	0.31	20829	20828.9	0.31

Table A.629: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	590.97	2.41	596	590.87	2.7	596	590.7	2.9	596	590.8	3.48
		2op	595	590.7	3.51	595	591.13	2.73	596	591.2	3.43	595	590.6	3.21
	50	rnd	595	590.8	2.34	595	591.9	2.92	596	590.27	2.94	595	590.07	2.82
51	20	rnd	596	591.97	2.91	595	591.7	2.67	595	590.3	2.83	596	590.77	2.98
		2op	595	591.03	2.82	596	590.87	3.52	595	591.9	2.32	596	591.13	3.05
	50	rnd	595	592.23	2.28	595	591.63	2.62	596	590.87	2.47	595	591.33	3.29
	20	rnd	595	591.8	2.41	596	591.77	2.42	596	591.8	2.87	596	591.67	2.59
		2op	596	592.63	2.75	595	591.63	3.21	596	592.7	2.48	595	591.97	2.81
	50	rnd	595	591.8	2.41	596	591.77	2.42	596	591.8	2.87	596	591.67	2.59

Table A.630: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	590.93	3.71	596	591.9	2.64	596	590.37	3.15	596	590.67	3.13
		2op	596	591.67	2.63	596	591.37	2.74	596	590	3.43	595	590.77	3.18
	50	rnd	596	591.03	2.97	596	591.6	3	596	591.97	3.51	596	591.13	2.5
51	20	rnd	596	591.97	2.61	596	591.37	3.11	596	591.03	2.85	596	591.57	2.79
		2op	595	590.83	2.77	596	590.9	3.17	595	590.97	3.36	596	590.57	4.26
	50	rnd	596	592.33	2.97	596	592.03	2.39	595	590.8	3.17	596	590.47	3.58
	20	rnd	595	591.67	2.43	596	591.77	3.16	595	590.57	3.3	595	590.67	2.95
		2op	596	593.33	2.37	596	592.73	2.13	596	592.1	2.5	596	591.87	3.27
	50	rnd	595	591.67	2.43	596	591.77	3.16	595	590.57	3.3	595	590.67	2.95

Table A.631: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.43	2.8	596	591.73	2.7	595	591.53	3.14	596	591.87	2.3
		2op	595	592.13	2.45	596	592.5	2.58	596	592.53	2.56	596	591.93	2.53
	50	rnd	595	591.1	2.92	596	592.73	1.93	596	592.27	2.13	596	592	2.55
51	20	rnd	596	593.47	1.76	595	592.3	2.35	596	592.07	2.27	596	591.67	2.41
		2op	595	591.83	2.7	596	593.07	2.08	596	593.2	2.09	596	593.17	2.29
	50	rnd	596	594.33	0.92	596	594.8	1.06	596	594.2	1.67	596	593.5	2.06
	20	rnd	595	592.77	2.03	596	593.53	1.91	596	593.8	2.55	596	593.23	2.06
		2op	596	594.6	1.04	596	594.23	1.63	596	593.63	1.79	596	593.43	2.16
	50	rnd	595	592.77	2.03	596	593.53	1.91	596	593.8	2.55	596	593.23	2.06

Table A.632: f_{25_305} : basicRRGA+IM: 500 – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.43	2.39	596	592.7	2.44	596	592.6	2.75	595	591.33	2.22
		2op	596	593.43	2.11	596	592.4	2.69	596	592.07	2.89	596	591.97	2.61
	50	rnd	596	592.43	2.31	596	593.33	1.83	596	592.37	2.11	595	592.4	1.92
51	20	rnd	596	592.93	2.02	596	593.67	1.73	596	594.1	1.56	596	591.93	2.7
		2op	596	594.47	0.86	596	594.87	0.73	595	594.5	1.25	596	593.27	2.05
	50	rnd	596	593.3	1.91	596	593.93	1.39	596	593.83	1.42	595	592.37	2.34
		2op	596	594.8	0.61	596	594.07	1.62	596	593.87	1.46	596	592.33	2.2

Table A.633: f_{25_305} : basicRRGA+IM: 5000 – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	587.93	4.92	594	587.63	4.28	595	588.13	6.27	594	587.1	6.5
		2op	595	593.57	1.63	595	593	2.59	595	592.57	2.57	595	592.4	2.7
	50	rnd	596	585	8.81	594	586.87	5.69	594	588.23	5.02	595	589.8	2.99
51	20	rnd	595	593.3	2	595	594.23	0.97	595	593.17	2.15	596	593.57	2.18
		2op	595	593.03	1.96	595	593.93	1.46	595	592.37	2.44	596	591.87	2.8
	50	rnd	595	588.6	2.54	595	587	5.65	596	590.2	3.33	595	589.13	5.36
		2op	595	592.73	1.95	595	594	1.46	595	593.47	2.11	596	592.37	2.34

Table A.634: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	594	586.13	5.62	595	586.87	5.98	596	588.1	3.72	595	587.6	5.93
		2op	595	593.07	1.76	595	592.77	2.24	595	592.43	2.87	596	591.87	2.65
	50	rnd	595	583.77	9.91	594	588.17	5.34	596	589.07	7.07	596	588.6	4.41
51	20	rnd	595	593.4	1.33	595	593.93	1.41	596	593.03	2.57	595	592.77	2.5
		2op	595	584.3	10.01	595	584.8	8.57	596	587.4	7.58	595	589.1	3.3
	50	rnd	595	593.17	2.02	595	593.97	1.22	596	592.4	2.55	595	591.87	2.84
		2op	596	585.23	8.22	593	586.03	7.43	595	585.8	7.41	595	588.4	5.59
		2op	595	593.4	1.89	595	594.37	0.56	595	593.83	1.74	595	592.33	2.47

Table A.635: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	772	3.38	777	769.9	7.6	777	769.67	6.54	775	770.93	5.17
		2op	777	771.3	2.81	777	771.13	3.42	777	768	8.73	777	770.8	7.67
	50	rnd	777	772.37	3.49	777	770.77	7.11	776	771.37	5.13	777	772.47	2.94
51	20	rnd	777	772.53	3.12	777	772.93	2.38	777	772.27	5.25	777	770.83	7.01
		2op	777	771.73	4.7	777	770.9	4.29	777	770.9	4.64	777	770.43	5.64
	50	rnd	777	769.93	3.35	777	771.07	5.61	777	770.1	4.65	777	767.8	10.05
	20	rnd	775	772.53	1.96	777	773.27	2.75	777	772.4	3.92	777	772.37	6.7
		2op	777	771.9	2.92	777	773	2.82	777	772.23	3.09	777	772.27	3.38

Table A.636: f_{25_400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	772.1	3.71	776	770.27	7.9	777	770.23	6.43	777	767.03	9.63
		2op	775	770.77	2.87	777	770.63	6.8	777	768.5	9.39	777	770.07	8.59
	50	rnd	777	773.13	2.99	777	771.57	5.56	777	771.63	4.99	777	767.8	9.71
51	20	rnd	777	771.53	3.42	777	772.13	3.65	777	771.63	6.36	777	769.37	8.14
		2op	777	772.43	3.42	776	771.27	4.26	777	771.6	6	777	771.53	3.43
	50	rnd	777	769.67	2.97	777	770	5.48	776	770.07	6.64	776	768.3	8.8
	20	rnd	777	772.07	3.6	777	772.6	2.54	777	773.3	3.63	777	771.2	6
		2op	777	772.3	2.55	777	770.93	4.27	777	771.47	5.61	777	770.67	5.27

Table A.637: f_{25_400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.93	3.15	777	773.03	2.47	777	772.77	2.81	777	773.5	2.83
		2op	775	770.47	2.47	776	772.1	2.54	777	771.37	3.1	777	771.67	3.5
	50	rnd	776	771.27	4.93	777	773.13	2.74	777	772.93	2.75	777	772.37	3.25
51	20	rnd	777	771.8	2.61	777	772.17	3.18	777	771.5	3.15	777	772.03	3.02
		2op	777	772.5	3.25	777	773.4	2.39	777	773.6	2.54	777	773.57	2.36
	50	rnd	774	770.63	1.71	774	771.83	2.17	777	771.93	2.38	775	772.13	1.83
	20	rnd	777	772.73	2.83	777	773.27	3.04	777	774.13	1.87	777	773.57	2.62
		2op	777	771.73	2.12	777	772.53	2.29	777	772.33	3.27	777	772.57	2.88

Table A.638: f_{25_400} : basicRRGA+IM: 500 – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	772.3	3.13	777	772.53	2.52	777	773.07	2.7	777	771.13	4.74
		2op	777	771	2.3	775	772.37	2.36	777	772.93	2.77	776	771.8	3.55
	50	rnd	777	772.13	2.87	776	773.63	2.04	777	772.23	3.2	777	772.73	2.7
51	20	2op	777	771.4	1.92	777	773.63	2.54	777	772.53	2.65	777	772.57	2.88
		rnd	777	772.4	2.87	777	773.33	2.31	777	774.9	1.75	777	773.37	2.5
	50	2op	775	770.73	2.05	777	772.87	1.96	775	772.67	1.27	776	771.97	2.65
	20	rnd	777	773.7	2.77	777	775.1	1.47	777	774.87	1.72	777	773.7	2.38
		2op	777	771.93	2	777	773.6	1.98	777	773.57	2.91	777	773.33	2.47

Table A.639: f_{25_400} : basicRRGA+IM: 5000 – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	768.17	5.62	777	761.67	12.1	777	768.83	5.9	775	768.57	6.86
		2op	774	768.63	2.13	774	769.23	1.89	774	767.33	5.52	774	763.9	9.65
	50	rnd	773	764	8.77	775	764.03	11.3	777	766.2	9.62	777	767.43	6.83
51	20	2op	774	768.73	2.08	774	769.1	2.35	772	768.8	1.83	772	767.67	5.29
		rnd	775	765.5	10.5	776	763.37	9.68	775	767.23	5.78	774	766.67	9.19
	50	2op	771	768.03	3.1	770	769.27	1.01	774	768.87	2.43	775	766.67	7.25
	20	rnd	775	762.03	11.8	775	765.13	10.07	777	767.03	8.21	776	767.13	9.02
		2op	770	768.77	1.72	774	769.07	2.38	771	768.83	2.68	775	767.63	5.37

Table A.640: f_{25_400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	766.3	5.24	774	767.9	6.47	777	767.07	7.32	776	769.8	5.18
		2op	770	767.77	1.91	774	769.27	2.55	774	767.23	5.66	774	765.37	7.59
	50	rnd	777	768.2	6.55	777	766.67	10.44	777	767.1	8.82	777	768.9	5.25
51	20	2op	774	768.43	2.56	774	769.03	1.9	774	768.93	5.66	773	765.67	7.77
		rnd	775	765.4	9.84	777	767.23	7.64	777	766.57	9.91	776	767.27	8.69
	50	2op	771	767.73	2.92	774	769.5	1.17	771	767.63	3.1	772	766.13	7.88
	20	rnd	775	764.47	10.14	777	769.3	7.71	777	763.3	10.99	777	769.53	7.05
		2op	770	768.57	2.43	774	769.7	1.58	772	768.03	5.04	774	767.67	5.13

Table A.641: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	914.1	3.36	919	913.6	2.66	919	914.17	2.96	919	913.87	2.86
		2op	921	914.3	3.82	921	913.6	3.25	921	913.8	3.83	921	914.47	4.24
	50	rnd	921	914.97	3.48	919	913.57	3.38	919	914.33	3.24	921	913.07	3.77
51	20	rnd	919	915.47	2.5	921	914.77	3.34	921	913.83	3.21	921	915.73	2.8
		2op	921	915.23	3.07	921	915	3.21	921	914.03	3.95	921	915.6	3.1
	50	rnd	919	914.7	3.06	919	915.57	2.78	919	914.17	4	919	914.9	3.34
	20	rnd	919	913.93	3.58	921	915.1	2.8	921	915.33	3.61	921	914.87	3.59
		2op	921	915.57	2.65	921	915.33	2.84	921	915.67	3.27	921	915.13	3.1
	50	rnd	919	913.93	3.58	921	915.1	2.8	921	915.33	3.61	921	914.87	3.59

Table A.642: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	913.9	2.82	919	913.5	3.64	919	913.7	2.78	921	915.33	3
		2op	921	914.77	3.81	919	913.9	3.69	921	915.7	2.88	921	914.4	3.72
	50	rnd	921	915.23	3.13	921	914.27	2.85	919	914.8	3.19	921	913.37	3.69
51	20	rnd	921	914.97	3.8	919	914.73	3.81	921	915.1	2.95	921	915.3	3.21
		2op	919	914.47	4.11	919	914.17	3.65	919	913.43	4.02	921	913.57	4.48
	50	rnd	921	913.07	3.63	921	915.37	3.44	918	913.67	3.4	919	914.5	2.76
	20	rnd	921	914.3	3.15	921	914.93	3.2	919	914.53	2.93	921	915.2	2.77
		2op	919	915.7	2.64	921	916.07	2.83	919	915.37	3.05	919	915.23	2.69
	50	rnd	921	914.3	3.15	921	914.93	3.2	919	914.53	2.93	921	915.2	2.77

Table A.643: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	914.5	3.97	921	914.77	3.3	921	914.07	3.53	919	914.67	2.94
		2op	918	914.2	2.62	921	914.6	3.47	921	916.47	3.2	921	915.37	3.27
	50	rnd	921	915.47	3.18	921	915.23	3.04	921	915.3	3.24	921	914.97	3.09
51	20	rnd	921	915.3	2.83	921	916.57	2.06	921	916.07	2.92	921	915.5	3.12
		2op	921	914.6	3.94	921	915.57	2.71	921	917.43	2.34	921	917.4	2.46
	50	rnd	916	915.53	1.36	921	916.3	1.34	921	916.63	2.17	921	916.83	2.26
	20	rnd	921	916.23	2.61	921	917.17	2.61	921	917.33	2.4	921	915.73	2.52
		2op	919	916.23	1.17	921	917.23	2.16	921	918.3	2.35	921	916.7	3.05
	50	rnd	921	916.23	1.17	921	917.23	2.16	921	918.3	2.35	921	916.7	3.05

Table A.644: f_{25_500} : basicRRGA+IM: 500 – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	914.5	3.39	921	915.63	2.72	921	916.3	3.37	919	915.87	2.34
		2op	919	915.3	2.52	921	916.23	3.07	921	915.87	2.58	921	916.07	2.82
	50	rnd	921	915.63	2.86	921	916.6	2.65	921	916.43	3.15	921	915.97	3.33
51	20	rnd	921	915.67	2.83	921	917.47	2.49	921	917.47	2.53	921	916.4	2.65
		2op	921	915.9	3.29	921	916.13	2.61	921	917.47	2.49	921	916.77	2.03
	50	rnd	918	915.9	0.99	921	917.03	1.79	921	918.73	1.84	921	916.33	2.92
	20	rnd	921	916	2.53	921	917.17	2.6	921	917.8	2.22	921	917.33	1.81
		2op	921	916.37	1.61	921	917.63	2.36	921	918.13	2.56	921	916.93	2.45

Table A.645: f_{25_500} : basicRRGA+IM: 5000 – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	918	908.5	8.93	918	911.2	4.92	919	912	3.22	919	912.43	3.73
		2op	916	913.3	3.65	919	915.67	1.49	921	915.6	2.61	919	913.47	4.18
	50	rnd	918	911.87	5.59	917	912.67	3.78	919	912.33	5.82	917	912.97	3.09
51	20	rnd	916	914.13	2.36	918	915.53	1.87	921	915.87	1.43	921	915.33	2.71
		2op	917	908.13	8.03	919	912	5.47	917	911.07	4.03	918	912.6	4.78
	50	rnd	916	914.8	2.61	916	915.53	1.33	919	916.23	1.3	921	915.23	3
	20	rnd	916	910.6	5.01	918	913.6	3.7	919	912	3.54	917	912.83	3.18
		2op	916	914.57	2.53	919	916.07	0.87	919	915.77	1.72	919	915.3	3.22

Table A.646: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	916	912.33	2.52	918	911.13	5.22	919	912.9	2.92	919	912.87	3.61
		2op	919	914	3.35	918	915.9	1.6	919	915.23	2.47	921	914.43	3.48
	50	rnd	918	908.1	10.15	918	911.93	4.46	917	912.03	3.79	921	913.23	3.48
51	20	rnd	916	914.33	2.54	917	915.37	1.83	921	915.6	2.47	919	914.87	2.81
		2op	918	909.4	6.49	918	910.63	5.56	919	910.63	5.77	921	911.83	5
	50	rnd	916	915	2.42	917	915.6	1.28	919	915.77	1.61	921	914.7	3.42
	20	rnd	916	910.33	6.43	919	912	5.04	919	911.87	5.55	919	912.9	5.1
		2op	916	914.57	2.24	916	916	0	919	915.93	0.83	921	915.53	2.54

Table A.647: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1557.57	10.12	1573	1555.23	12.25	1572	1558.27	7.85	1572	1553.63	13.88
		2op	1572	1558.43	6.7	1573	1559.47	7.3	1575	1558.13	8.08	1572	1557.3	8.97
	50	rnd	1574	1558.6	7.46	1576	1559.8	7.46	1574	1558.23	8.67	1578	1558.67	10.71
51	20	rnd	1578	1561.23	6.33	1581	1558.53	10.6	1573	1557.6	8.99	1572	1560.67	7.75
		2op	1573	1561	6.56	1575	1559.6	8.37	1575	1561.87	8.53	1575	1558.83	8.2
	50	rnd	1575	1560.67	7.02	1569	1560.2	4.68	1575	1559.2	7.92	1575	1559.87	9.53
	20	rnd	1575	1557.9	10.47	1570	1560.5	7.74	1576	1559.47	9.57	1572	1558.13	9.25
		2op	1572	1559.8	5.12	1571	1559.17	5.99	1573	1561.3	6.43	1573	1558.47	8.87

Table A.648: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1577	1557.3	8.48	1579	1559.4	11.4	1575	1558.97	10.02	1574	1556.83	12.35
		2op	1572	1559.07	7.73	1574	1559	8.97	1573	1556.73	9.57	1575	1556.3	9.83
	50	rnd	1577	1559.5	11.31	1572	1560.93	7.19	1576	1559.7	8.53	1572	1555.97	10.01
51	20	rnd	1573	1557.4	8.57	1577	1559.97	11.24	1573	1556.83	10.88	1575	1558.33	7.15
		2op	1572	1559.97	7.17	1572	1558.4	8.1	1575	1558.87	9.07	1573	1556	10.95
	50	rnd	1570	1556.37	6.09	1573	1559.47	7.21	1570	1558.83	7.69	1574	1557.9	8.31
	20	rnd	1570	1560.53	6.34	1577	1562.2	8.37	1569	1558.7	8.38	1573	1559.2	9
		2op	1569	1560.83	5.77	1571	1561.77	5.76	1573	1561.83	8.88	1570	1558.43	5.85

Table A.649: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1554.07	11.01	1580	1560.43	10.3	1577	1562.07	7.34	1573	1560.37	6.47
		2op	1572	1558.87	5.88	1574	1560.4	8.66	1574	1562.3	6.91	1577	1559.63	9.82
	50	rnd	1571	1559.9	7.06	1574	1560.5	8.38	1574	1560.67	8.36	1573	1559.7	8.2
51	20	rnd	1574	1560.07	5.39	1574	1562.23	6.06	1573	1561.97	7.06	1570	1558	10.22
		2op	1575	1557.87	9.73	1570	1556.17	9.7	1575	1561.3	6.51	1576	1562.83	7.66
	50	rnd	1565	1556.33	2.67	1569	1561.33	4.79	1572	1564.9	4.15	1570	1562.73	6.88
	20	rnd	1571	1560.67	7.51	1577	1561.5	7.59	1576	1562.57	7.26	1574	1561.67	7.93
		2op	1564	1557.2	3.02	1572	1565.83	5.05	1576	1566.47	5.06	1577	1561.27	7.39

Table A.650: f_{50_315} : basicRRGA+IM: 500 – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1561.73	6.11	1574	1559.3	8.37	1575	1559.5	9.07	1572	1560.03	7.51
		2op	1577	1558.17	7.1	1574	1562.7	6.49	1574	1560.17	7.76	1574	1560.57	6.8
	50	rnd	1575	1557.07	9.01	1577	1565.63	5.93	1575	1563.2	6.66	1577	1562.27	6.61
51	20	rnd	1570	1559.57	5.77	1575	1562.7	6.08	1572	1557.5	7.34	1577	1560.03	9.53
		2op	1574	1558.83	8.02	1573	1562.87	6.92	1573	1562.37	7.22	1578	1560.4	9.24
	50	rnd	1569	1558.77	4.11	1572	1564.43	4.12	1578	1566.03	4.48	1575	1560.13	7.46
	20	rnd	1579	1561.63	8.83	1574	1562.3	6.5	1578	1562.8	7.31	1572	1559.1	7.68
		2op	1576	1562.33	5.05	1576	1565.93	5.81	1573	1563.8	6	1574	1562.37	7.15

Table A.651: f_{50_315} : basicRRGA+IM: 5000 – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1569	1555.53	8.91	1571	1553.73	12.42	1574	1556.3	8.05	1572	1552.27	14.28
		2op	1558	1553.8	1.27	1568	1557.3	4.01	1567	1558.07	5.64	1574	1561.73	7.15
	50	rnd	1570	1553.33	10.1	1573	1557.93	8.81	1570	1555	10.39	1568	1555.13	10.4
51	20	rnd	1555	1553.4	0.81	1570	1556.77	3.97	1571	1558.67	7.37	1576	1561.3	7.23
		2op	1570	1557.17	9.94	1568	1554.2	8.84	1572	1554.9	11.05	1572	1555.47	10.04
	50	rnd	1560	1554.33	1.69	1571	1558.07	4.31	1574	1558.83	4.78	1570	1560.57	4.53
	20	rnd	1572	1556.03	10.92	1569	1551.57	9.27	1572	1554.53	8.69	1570	1552.8	9.7
		2op	1558	1554.2	1.35	1567	1557.4	3.39	1571	1559.1	5.08	1574	1562.3	5.43

Table A.652: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1569	1552.43	9.12	1567	1553.1	9.87	1567	1555.63	8.29	1573	1557.17	9.63
		2op	1555	1553.3	1.15	1570	1557.93	4.81	1573	1560.77	5.22	1570	1560.3	6.76
	50	rnd	1570	1555.57	8.25	1579	1552.57	11.24	1572	1553.6	9.43	1573	1556.93	9.68
51	20	rnd	1566	1554.6	3.11	1567	1555.97	3.63	1571	1560.77	4.94	1575	1561.9	7.24
		2op	1569	1554.63	8.5	1574	1556.37	9.39	1570	1555.03	8.6	1574	1556.9	11.1
	50	rnd	1562	1553.97	2.03	1570	1557.23	4.03	1567	1557.4	5.76	1572	1562.8	6.7
	20	rnd	1572	1554.3	11.19	1571	1550.43	13.43	1571	1556.57	9.74	1568	1556.4	6.78
		2op	1558	1553.73	1.46	1564	1556.57	2.37	1569	1557.37	3.56	1575	1563.7	5.54

Table A.653: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1552.3	9.59	1569	1550.93	9.1	1564	1551.8	9.22	1569	1554.93	7.89
		2op	1563	1547.97	11.62	1567	1551.33	9.43	1564	1551.77	9.51	1565	1552.53	9.39
	50	rnd	1565	1553.23	13.63	1571	1555.5	9.92	1570	1555.2	8.77	1569	1555.13	6.83
51	20	rnd	1565	1554.73	8.03	1569	1555.17	9.56	1566	1553.93	7.92	1566	1551.1	10.29
		2op	1568	1553.67	8.64	1567	1554.47	9.84	1570	1551.87	13.04	1570	1554.3	9.05
	50	rnd	1568	1545.3	11.88	1569	1551.63	9.98	1568	1552.97	7.86	1569	1551.93	9.78
	20	rnd	1569	1553.27	8.86	1571	1555.47	9.18	1570	1556.63	8.16	1566	1551.43	11.55
		2op	1569	1551.37	9.29	1566	1551.37	10.99	1566	1553.2	9.33	1568	1557.4	6.48

Table A.654: f_{50_412} : basicRRGA – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1568	1552.8	9.64	1564	1553.23	8.72	1564	1551.43	8.39	1566	1552.13	11.28
		2op	1572	1551.6	10.92	1568	1549.27	11.86	1566	1549.4	10.55	1568	1547.83	10.83
	50	rnd	1569	1552.4	9.89	1569	1555.57	8.05	1569	1554.87	8.9	1568	1554.03	9.26
51	20	rnd	1565	1550.97	10.42	1569	1552.43	11.36	1572	1554.67	10.12	1565	1553.8	7.44
		2op	1567	1551.13	12.24	1569	1552.67	8.87	1565	1552.77	6.55	1567	1549.87	10.93
	50	rnd	1565	1544.77	11.14	1572	1553.1	8.23	1566	1549.87	10.25	1568	1551.73	10.67
	20	rnd	1569	1554.47	9.29	1568	1553.7	8.69	1567	1556.07	8.21	1566	1554.87	8.22
		2op	1569	1551.53	11.92	1572	1554.27	6.89	1564	1552.33	8.64	1569	1554.23	9.25

Table A.655: f_{50_412} : basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1553.57	7.13	1569	1557.97	7	1570	1556.27	6.61	1566	1554.37	7.41
		2op	1566	1546.27	12.09	1572	1553.2	7.07	1569	1554.3	9.41	1567	1552.3	10.96
	50	rnd	1568	1553.63	7.77	1566	1555.83	9.48	1573	1555.8	7.63	1571	1556.07	7.25
51	20	rnd	1566	1550.87	9.86	1571	1554.3	7.53	1566	1553.67	10.28	1568	1553.2	9.4
		2op	1568	1553.43	10	1567	1553.17	7.51	1569	1559.07	8.23	1568	1557.03	7.19
	50	rnd	1561	1551.3	8.92	1565	1553.57	4.85	1561	1554.03	4.92	1568	1555.23	6.12
	20	rnd	1567	1555.47	6.84	1570	1557.9	7.38	1570	1558.47	7.59	1570	1559.17	6.68
		2op	1565	1551.23	7.41	1569	1556.87	6.54	1567	1555.63	7.63	1568	1556.57	7.05

Table A.656: f_{50_412} : basicRRGA+IM: 500 – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1554.77	7.53	1569	1556.3	10.42	1567	1555.87	8.72	1567	1555.07	7.42
		2op	1564	1553.73	7.96	1569	1556.93	9.04	1568	1555.5	6.47	1571	1554.73	8.23
	50	rnd	1565	1553.37	10.44	1567	1556.73	7.03	1569	1557.43	7.69	1569	1553.77	9.42
51	20	rnd	1567	1550.23	9.89	1568	1552.4	8.95	1565	1555.37	7	1568	1552.5	10.84
		2op	1570	1553.23	8.83	1569	1556.8	8.8	1571	1559.03	7.96	1568	1555.53	8.34
	50	rnd	1568	1552.07	9.44	1563	1554.47	5.34	1563	1554.2	5.06	1573	1555.63	8.17
	20	rnd	1569	1556.5	7.01	1569	1559.53	5.2	1569	1558.57	7.41	1568	1557.43	7.51
		2op	1570	1553.57	5.62	1568	1557.07	7.18	1566	1557.57	4.55	1570	1553.83	10.37

Table A.657: f_{50_412} : basicRRGA+IM: 5000 – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1561	1543.03	14.51	1567	1547.7	9.44	1563	1545.93	12.52	1568	1547.57	11.75
		2op	1554	1532.47	5.23	1554	1533.57	5.6	1564	1536.43	12	1564	1544.6	11.97
	50	rnd	1567	1547.2	13.06	1558	1547.73	7.72	1566	1544.1	12.76	1568	1552.77	9.55
51	20	rnd	1533	1530.73	1.26	1558	1534.63	7.17	1561	1535.27	9.64	1566	1545.4	12
		2op	1567	1540.97	13.83	1563	1543.07	14.08	1564	1546.97	12.31	1565	1548.2	10.43
	50	rnd	1556	1531.77	4.62	1561	1534.83	8.3	1562	1536.6	11.34	1565	1542.77	11.77
	20	rnd	1560	1540.17	10.72	1564	1544.7	14.12	1567	1548.3	11.35	1568	1550.2	9.4
		2op	1540	1531.53	2.3	1550	1532.2	3.99	1550	1533.6	5.38	1564	1547.63	11.05

Table A.658: f_{50_412} : transRRGA – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1538.6	13.17	1569	1549.27	12.79	1569	1546.3	14.09	1562	1545.87	9.61
		2op	1540	1530.77	1.98	1546	1533.73	4.33	1556	1537.57	9.89	1565	1548.77	12.21
	50	rnd	1570	1547.57	15.52	1563	1543.8	13.27	1566	1548.57	12.4	1570	1549.37	10.44
51	20	rnd	1532	1530.97	0.41	1546	1532.97	4.37	1563	1537.7	9.89	1565	1547.87	12.09
		2op	1566	1544.67	13.54	1565	1547.27	9.67	1566	1549.33	11.06	1567	1548.27	10.68
	50	rnd	1540	1531.17	1.74	1557	1534.87	8.55	1558	1537.43	8.23	1564	1543.3	12.59
	20	rnd	1563	1543.33	14.87	1564	1545.03	11.24	1570	1547.63	13.88	1564	1542.77	14
		2op	1531	1531	0	1556	1533.07	6.15	1540	1532.77	3.32	1561	1542.47	10.87

Table A.659: f_{50_412} : transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1546.9	8.88	1560	1547.7	9.22	1564	1551.1	8.76	1566	1547.27	9.21
		2op	1566	1551.6	5.92	1567	1550.87	11.19	1567	1550.13	9.5	1565	1551.13	7.05
	50	rnd	1565	1548.13	8.89	1565	1548.67	9.47	1562	1549.5	7.3	1566	1550.73	7.82
		2op	1568	1553.07	7.97	1562	1548.3	8.58	1564	1550.5	10.03	1568	1551.73	11.06
51	20	rnd	1567	1549.83	7.17	1562	1551.17	6.8	1568	1550.27	8.33	1563	1549.9	10.25
		2op	1561	1549.73	6.39	1564	1551.33	6.71	1565	1551.37	7.35	1567	1554.63	6.39
	50	rnd	1562	1550.17	7.61	1562	1549.13	9.38	1563	1549.37	8.45	1563	1549.13	7.36
		2op	1561	1552.37	4.78	1561	1551.07	6.23	1562	1550	7.58	1565	1549.27	8.72

Table A.660: f_{50_498} : basicRRGA – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1549.67	9.04	1566	1552.17	8.91	1565	1547.07	9.3	1567	1549.63	11.51
		2op	1560	1548.57	7.66	1568	1551.8	10.41	1565	1553.4	8.67	1560	1548.5	8.05
	50	rnd	1563	1550.77	8.45	1563	1551.57	6.95	1566	1551.23	8.34	1560	1549.73	7.85
		2op	1565	1550.5	9.21	1561	1550.23	7.56	1568	1553.63	8.34	1561	1551.03	6.75
51	20	rnd	1562	1551.1	6.82	1563	1547.3	10.68	1566	1550.4	9.99	1563	1546.57	8.81
		2op	1560	1549.13	4.02	1565	1553.33	7.35	1566	1553.27	7.48	1564	1554.27	6.96
	50	rnd	1562	1549.4	9.43	1562	1548.07	7.33	1565	1550.17	9.54	1566	1549.5	10.06
		2op	1566	1551.3	5.86	1565	1549.4	8.47	1560	1550.8	5.5	1566	1551.97	7.62

Table A.661: f_{50_498} : basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1562	1549.23	7.72	1565	1551.2	8.47	1563	1551.13	7.74	1560	1545.6	10.18
		2op	1558	1549.53	4.62	1565	1551.23	5.67	1563	1552.23	5.82	1565	1550.6	8.21
	50	rnd	1567	1551.3	8.53	1562	1547.2	8.87	1564	1546.17	10.43	1570	1553.77	9.34
		2op	1566	1550.87	6.75	1565	1552.87	8.91	1567	1554.2	7.77	1563	1550.77	7.25
51	20	rnd	1565	1551.5	9.79	1562	1549.73	9.88	1564	1550.5	9.25	1564	1552.9	6.16
		2op	1548	1548	0	1550	1548.13	1.04	1564	1550.27	3.89	1564	1551.87	5.45
	50	rnd	1563	1549.3	7.63	1565	1550.37	7.94	1565	1551.57	8.59	1568	1551.73	8.54
		2op	1562	1549.1	2.86	1560	1549.73	4.6	1564	1552.57	5.11	1568	1552.17	7.48

Table A.662: f_{50_498} : basicRRGA+IM: 500 – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1550.23	9.66	1564	1549.5	8.42	1559	1549.57	6.87	1566	1550.9	8.21
		2op	1563	1550.3	6.42	1563	1553.87	4.85	1570	1554.5	7.86	1561	1551.03	7.03
	50	rnd	1563	1549.83	6.18	1562	1550	8.43	1566	1550.87	8.65	1568	1550.63	9.74
51	20	2op	1562	1550.83	6.84	1565	1552.63	7.96	1567	1554.63	8.67	1568	1550.03	9.28
		rnd	1563	1551.23	6.96	1563	1548.7	8.82	1566	1550.97	8.34	1565	1549.4	8.32
	50	2op	1552	1548.33	0.92	1556	1549	1.72	1568	1551.07	4.77	1565	1552.73	6.89
		rnd	1564	1550.47	6.42	1564	1550.8	9.03	1563	1551.07	7.8	1567	1552.57	8.94
		2op	1557	1548.73	2.39	1566	1551.07	5.01	1564	1552.57	5.86	1564	1551.4	7.19

Table A.663: f_{50_498} : basicRRGA+IM: 5000 – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1549.03	8.62	1564	1548.4	9.54	1566	1546.37	10.02	1561	1544.93	9.34
		2op	1548	1548	0	1557	1548.8	2.5	1557	1548.43	4.75	1560	1550.93	5.72
	50	rnd	1562	1547.63	8.48	1563	1547.37	9.3	1562	1546.7	10	1560	1547.33	8.52
51	20	2op	1551	1548.1	0.55	1560	1548.73	3.42	1560	1549.17	4.8	1558	1549.2	5.7
		rnd	1565	1551.2	7.98	1559	1546.5	6.89	1565	1547.93	7.52	1561	1546.9	8.27
	50	2op	1548	1548	0	1560	1549.1	3.66	1556	1548.4	4.54	1560	1549.47	5.56
		rnd	1560	1551.3	5.85	1562	1546.87	8.16	1560	1546.1	8.75	1561	1546.53	7.22
		2op	1548	1548	0	1548	1547.53	2.06	1556	1546.93	4.67	1558	1549.73	2.72

Table A.664: f_{50_498} : transRRGA – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1548.83	12.77	1563	1546.7	9.94	1564	1547.87	8.17	1564	1547.17	10.71
		2op	1554	1548.2	1.1	1557	1548.63	1.97	1560	1551.23	5.09	1566	1550.47	4.94
	50	rnd	1565	1550.13	8.2	1564	1548.57	7.44	1560	1545.03	10.66	1561	1546.8	8.99
51	20	2op	1548	1547.9	0.55	1552	1548.13	1.17	1560	1550.4	5	1558	1550.8	4.79
		rnd	1565	1551.67	8.34	1565	1547.4	8.87	1560	1548.47	6.69	1568	1545.47	9.28
	50	2op	1553	1548.3	1.15	1557	1548.77	3.06	1558	1548.7	4.94	1561	1549.57	5.88
		rnd	1567	1547.67	11.83	1559	1546.1	9.57	1566	1545.83	9.05	1562	1544.87	9.12
		2op	1548	1548	0	1548	1547.83	0.91	1560	1548.63	3.76	1560	1550.63	4.22

Table A.665: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2784	2744.57	16.46	2766	2743.57	11.8	2767	2743.8	9.77	2762	2741.3	13.97
		2op	2770	2753.07	11.49	2765	2746.37	11.59	2765	2745.53	12.92	2772	2747.2	13.09
	50	rnd	2766	2745.27	12.76	2773	2742.37	14.51	2770	2743.7	13.38	2773	2743.67	11.33
51	20	2op	2774	2754.5	10.93	2769	2747.93	11.57	2775	2747.6	12.77	2766	2745.1	12.03
		rnd	2767	2742.77	12.43	2763	2744.7	12.43	2771	2743.17	9.95	2765	2744	11.98
	50	2op	2773	2758.4	9.45	2776	2757.07	9.82	2778	2753.03	11.99	2775	2747.43	14.48
	20	rnd	2767	2745.63	10.85	2765	2744.57	13.22	2763	2744.8	10.82	2761	2740.5	10.18
		2op	2772	2757.17	8.53	2771	2755.27	10.04	2767	2751.93	9.42	2777	2746.57	13.98

Table A.666: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2767	2744.33	17.69	2768	2747.23	12.44	2764	2740.87	12.02	2774	2746.57	15.73
		2op	2772	2755.27	11.19	2771	2746.87	10.11	2760	2742.97	11.96	2769	2748.83	11.19
	50	rnd	2774	2746.3	11.64	2767	2747.7	10.5	2766	2747.23	10.17	2760	2743.57	13.82
51	20	2op	2766	2752.6	10.88	2766	2744.63	15.59	2768	2746.13	9.89	2764	2741.9	13.5
		rnd	2773	2746.07	15.89	2764	2746.43	11.22	2765	2743.9	12.91	2769	2744.67	11.57
	50	2op	2774	2759.97	8.82	2771	2753.7	11.86	2766	2753.3	9.78	2770	2752.07	9.69
	20	rnd	2773	2746.27	13.76	2772	2746.37	13.43	2769	2746.4	14.73	2762	2743.33	13.47
		2op	2779	2760.37	8.02	2770	2752.97	9.41	2772	2751.43	11.06	2772	2749.43	12.16

Table A.667: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2777	2744.93	14.63	2772	2748.6	10.92	2771	2744.53	13.57	2763	2741.97	12.86
		2op	2772	2762.33	6.14	2771	2758	6.4	2776	2754.17	11.49	2768	2749.33	11.7
	50	rnd	2766	2746	11.02	2774	2744.7	12.48	2771	2747.5	11.96	2769	2746.93	12.55
51	20	2op	2778	2759.87	8.01	2768	2751.17	10.79	2772	2746.07	15.53	2783	2751.57	12.49
		rnd	2770	2746.97	12.32	2762	2744.73	11.68	2761	2743.77	13.88	2771	2748.7	11.5
	50	2op	2762	2761.7	1.64	2771	2762.63	2.09	2769	2762.6	2.27	2778	2762.03	7
	20	rnd	2766	2743.9	11.95	2770	2749.63	8.12	2768	2747.07	10.63	2772	2747.33	12.46
		2op	2770	2761.87	2.01	2778	2765.07	4.91	2771	2761.47	7.1	2776	2754.07	9.53

Table A.668: f_{100_307} : basicRRGA+IM: 500 – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2761	2740.73	12.42	2771	2749.83	12.71	2764	2743.83	12.32	2766	2746.6	13.95
		2op	2781	2763.43	7.5	2770	2756.07	9.9	2772	2753.07	11.39	2764	2745.07	13.49
	50	rnd	2770	2750.3	11.89	2770	2746.43	12.62	2765	2748.8	12.4	2770	2746.67	14.74
51	20	rnd	2778	2761.4	7.91	2774	2754.77	9.13	2778	2751.13	10.35	2774	2746.53	16.54
		2op	2763	2744.8	12.91	2780	2749.73	14.09	2783	2746.23	12.97	2769	2745	11.38
	50	rnd	2762	2762	0	2762	2761.83	0.59	2778	2763.47	4.31	2771	2757.23	7.23
	20	rnd	2768	2744.57	11.75	2766	2747	12.69	2771	2747.3	11.15	2772	2748.5	11.6
		2op	2772	2763.13	3.29	2780	2765.77	6.72	2775	2762.07	9.15	2765	2750.6	10.75

Table A.669: f_{100_307} : basicRRGA+IM: 5000 – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2764	2742.4	13.12	2763	2743.23	13.58	2765	2738.57	16.87	2765	2745.37	13.11
		2op	2762	2762	0	2771	2762.43	3.78	2768	2762.9	2.48	2774	2761.7	6.33
	50	rnd	2769	2743.13	15.18	2765	2738.53	16	2755	2735.13	14.25	2759	2738.73	13.76
51	20	rnd	2762	2762	0	2762	2761.87	0.51	2767	2761.8	3.43	2776	2762.03	5.84
		2op	2767	2740.43	14.68	2771	2740.9	12.79	2759	2736.23	13	2777	2740.3	17.3
	50	rnd	2762	2762	0	2766	2762.13	1.07	2778	2763.3	7.92	2774	2763.73	5.64
	20	rnd	2762	2744.2	12.77	2768	2743.8	13.78	2763	2742.27	11.62	2761	2732.47	14.23
		2op	2762	2762	0	2766	2762.07	0.83	2771	2761.83	3.61	2769	2761.1	4.89

Table A.670: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2763	2738.9	16.71	2761	2741.33	12.38	2768	2741.5	14.12	2765	2740.27	12.85
		2op	2765	2762.1	0.55	2770	2762.53	2.15	2770	2761.3	4.63	2772	2761	6.52
	50	rnd	2765	2745.83	13.75	2765	2741.3	14.69	2760	2739.27	14.14	2776	2743.5	14.97
51	20	rnd	2762	2761.9	0.55	2771	2762.6	2.39	2772	2762.17	3.82	2770	2760.23	6.58
		2op	2779	2747.37	15.26	2758	2737.53	14.71	2775	2741.83	13.93	2768	2742.57	17.46
	50	rnd	2762	2761.97	0.18	2771	2762.7	2.32	2779	2764.37	4.39	2773	2760.5	7.66
	20	rnd	2774	2743.1	15.98	2767	2741.9	14.29	2767	2745.13	12.09	2768	2742	15.59
		2op	2762	2762	0	2765	2762.1	0.55	2773	2762.83	2.88	2772	2763.07	5.03

Table A.671: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2838	2815.07	11.79	2829	2812.17	10.54	2840	2818	10.88	2833	2811.6	11.48
		2op	2831	2811.73	10.98	2841	2809.23	15.08	2839	2809.8	14.92	2840	2812.1	13.48
	50	rnd	2841	2813.07	17.2	2835	2811.83	14.1	2838	2819.4	10.06	2844	2813.93	15.25
51	20	rnd	2839	2813.03	13.49	2836	2811.83	13.84	2837	2811.03	14.58	2834	2811.4	12.09
		2op	2837	2817.03	13.57	2845	2817.5	12.94	2844	2815.4	12.86	2838	2814.03	11.68
	50	rnd	2842	2813.5	10.61	2827	2808.47	10.21	2839	2809.7	14.37	2835	2812.57	12.82
	20	rnd	2837	2818.77	13.11	2848	2820.27	12.7	2847	2818.47	14.7	2837	2817.5	10.49
		2op	2833	2809.5	10.77	2833	2810.27	11.37	2831	2810.4	14.98	2831	2811.37	11.44

Table A.672: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2840	2813.87	16.36	2845	2812.87	14.79	2840	2812.97	13.01	2830	2815.77	12.47
		2op	2828	2812.8	11.04	2844	2818.03	11.37	2843	2814.87	11.86	2848	2812.93	13.42
	50	rnd	2842	2818.87	11.5	2838	2816.03	15.33	2838	2812.8	18.12	2843	2816.93	14.27
51	20	rnd	2835	2812	12.63	2835	2812.7	11.88	2843	2812.03	12.89	2834	2809.07	13.12
		2op	2834	2810.33	14.76	2837	2816.57	12.21	2843	2816.37	12.07	2834	2817.27	12.56
	50	rnd	2829	2807.9	10.84	2834	2810.47	13.66	2834	2812.5	14.4	2833	2811.03	12.48
	20	rnd	2837	2816.27	11.48	2843	2816.67	16.53	2830	2813.93	11.86	2834	2816.83	11.64
		2op	2820	2807.27	5.32	2833	2811.5	13.31	2835	2814.93	9.18	2832	2809.43	13.24

Table A.673: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2839	2810.47	13.62	2841	2818.3	12.8	2831	2809.83	11.7	2838	2812.93	13.55
		2op	2825	2808.8	6.95	2832	2810.77	11.3	2836	2811	15.57	2835	2812.8	12.5
	50	rnd	2827	2812.67	9.62	2838	2817.5	10.86	2841	2817.23	14.26	2842	2815.93	14.85
51	20	rnd	2839	2810.8	10.94	2835	2815.9	9.55	2840	2814.53	12.92	2833	2810.63	12.53
		2op	2839	2815.07	16.7	2846	2813.93	15.71	2838	2814.43	14.32	2838	2816.77	13.21
	50	rnd	2810	2806	2.88	2810	2806.17	3.42	2826	2806.6	5.06	2837	2811.7	8.44
	20	rnd	2838	2816.37	12.06	2841	2817.9	13.97	2842	2820.93	11.59	2836	2816.3	9.16
		2op	2810	2807.07	3	2825	2808	5.61	2830	2813.1	7.48	2840	2809.9	13.95

Table A.674: $f_{100.415}$: basicRRGA+IM: 500 – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2838	2818.33	9.03	2840	2822.4	10.76	2836	2815	13.79	2830	2812.17	12.85
		2op	2840	2809.4	12.2	2839	2813.53	14.02	2838	2813.9	16.12	2834	2813	11.71
	50	rnd	2837	2820.97	9.25	2834	2816.87	12.57	2832	2815.4	11.21	2842	2817.07	11.68
51	20	rnd	2837	2813.37	10.65	2834	2816.3	10.82	2828	2808.27	9.74	2830	2813.57	10.16
		2op	2837	2811.87	13.3	2835	2816.8	12.8	2839	2819.13	13.1	2844	2817.27	12.13
	50	rnd	2810	2806.2	2.94	2813	2807.7	3.12	2819	2808	3.64	2841	2811.97	12.37
	20	rnd	2832	2817.9	13.41	2839	2818.07	12.61	2841	2817.5	13.93	2844	2819.07	14.6
		2op	2821	2807.83	3.89	2819	2808.63	4.58	2838	2813.07	11.73	2832	2811.2	12.57

Table A.675: $f_{100.415}$: basicRRGA+IM: 5000 – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2827	2811.1	10.95	2834	2806.43	13.52	2826	2808.53	10.1	2832	2805.07	15.93
		2op	2814	2806.73	3.26	2818	2807.57	4.24	2823	2808.33	6.19	2825	2811.93	6.96
	50	rnd	2842	2813.8	14.32	2826	2807.97	12.22	2835	2808.07	10.76	2841	2809.23	14.17
51	20	rnd	2810	2805.6	2.7	2825	2806.9	4.84	2824	2807.5	4.86	2829	2807.53	9.09
		2op	2814	2805.7	3.19	2810	2805.57	3.65	2828	2805.73	13.84	2829	2810.47	14.35
	50	rnd	2834	2807.6	13.66	2828	2808.87	14.78	2833	2808.57	6.32	2824	2807.47	7.95
	20	rnd	2830	2808.67	14.41	2844	2808.43	13.26	2830	2803.67	13.71	2834	2808.6	13.53
		2op	2810	2804.6	1.83	2814	2806.1	4.23	2817	2806.77	3.64	2825	2809.43	6.16

Table A.676: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2835	2806.1	17.46	2832	2807.93	13.17	2821	2805.1	13.12	2835	2809.1	14.31
		2op	2813	2806	2.96	2817	2807.33	4.14	2815	2805.83	4.97	2837	2807.93	8.82
	50	rnd	2831	2807.9	15.36	2834	2807.7	12.15	2827	2808.6	14.1	2829	2809.6	14.43
51	20	rnd	2810	2805.2	2.44	2814	2808.13	4.01	2820	2806.07	4.99	2824	2810.03	7.83
		2op	2829	2812.63	8.4	2838	2808.73	12.42	2834	2811.83	14.58	2842	2809.3	14.43
	50	rnd	2813	2806.47	3.13	2818	2807.13	4.08	2820	2808.7	4.98	2819	2806.23	6.44
	20	rnd	2833	2812.13	12.11	2820	2804.73	10.89	2835	2805.87	15.96	2835	2807.47	12.43
		2op	2810	2805	2.27	2822	2807.63	4.67	2813	2806.87	3.61	2825	2809.27	5.81

Table A.677: $f_{100.415}$: transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2685.3	10.44	2708	2686.27	12.8	2716	2689.57	13.58	2710	2688.37	14.2
		2op	2706	2694.77	10.04	2707	2687.67	9.86	2705	2688.2	11.44	2710	2686	14.28
	50	rnd	2712	2687.2	13.69	2713	2688.2	11.88	2711	2687.9	12.79	2716	2686.7	13.03
51	20	rnd	2703	2689.33	8.93	2708	2689.43	10.37	2707	2687.73	10.02	2709	2684.87	13.03
		2op	2713	2689.1	11.18	2706	2685.3	10.94	2712	2689.87	11.46	2711	2690.07	11.11
	50	rnd	2713	2693.7	8.95	2709	2691.2	9.03	2708	2691.07	10.74	2717	2689.97	9.65
		2op	2708	2686.47	12.8	2717	2688.53	13.13	2710	2688.07	12.47	2707	2687.27	11.44
		2op	2713	2693.47	6.45	2711	2692.17	8.79	2709	2691.97	9.81	2711	2687.73	16.13

Table A.678: $f_{100.512}$: basicRRGA – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2687.4	10.51	2707	2687.6	12.76	2709	2690.27	14.89	2705	2684.23	12.65
		2op	2705	2693.27	7.79	2718	2689.37	10.17	2700	2687.07	10.32	2710	2685.07	13
	50	rnd	2710	2686.03	14.8	2703	2687	8.41	2711	2686	11.48	2709	2685.47	13.5
51	20	rnd	2709	2691.9	11.33	2707	2687.63	9.75	2702	2685.83	10.91	2709	2687.63	11.02
		2op	2710	2687.97	11.86	2718	2689.37	10.88	2711	2682.87	11.96	2706	2687.4	12.04
	50	rnd	2711	2696.07	6.63	2707	2692.43	9.83	2705	2691.13	9.04	2708	2690.7	10.26
		2op	2713	2688.53	12.51	2706	2686.33	13.7	2707	2689.37	13.05	2706	2687.63	12.81
		2op	2710	2693.93	8.21	2707	2694.83	7.28	2711	2693.67	10.83	2710	2690.1	12.91

Table A.679: $f_{100.512}$: basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2687.2	11.89	2703	2686.73	11.67	2707	2687.07	13.89	2704	2688.6	8.97
		2op	2709	2695.07	7.05	2712	2692.83	10.08	2715	2694	10.16	2711	2691.97	10.05
	50	rnd	2713	2689.47	13.79	2710	2688.7	10.84	2704	2686.57	10.71	2717	2686.57	11.46
51	20	rnd	2707	2694.03	8.21	2710	2691.9	10.39	2705	2690.7	7.46	2709	2689.33	11.82
		2op	2704	2682.6	13.39	2708	2686.23	13.65	2711	2684.2	13.69	2715	2686.5	16.62
	50	rnd	2701	2695.33	1.21	2701	2695.63	1.27	2709	2697.13	4.29	2708	2695.43	6.46
		2op	2708	2685.23	14.13	2710	2689.7	11.79	2712	2689.87	11.37	2711	2687.87	13.37
		2op	2705	2695.83	3.67	2713	2696.93	4.56	2710	2697.8	5.55	2712	2692.8	9.45

Table A.680: $f_{100.512}$: basicRRGA+IM: 500 – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2701	2684.83	13.04	2713	2685.1	11.5	2711	2690.13	11.85	2706	2685.33	14.01
		2op	2712	2694.13	8.75	2704	2691.07	9.43	2713	2691.6	10.56	2710	2691.67	13.82
	50	rnd	2713	2686.1	15.7	2707	2686.3	10.76	2709	2689.63	13.42	2711	2691.17	10.86
51	20	rnd	2713	2695.77	8.99	2712	2693.13	9.72	2705	2693.47	7.29	2706	2692.63	9.1
		2op	2713	2689.5	13.83	2710	2691.63	11.75	2711	2685.97	16.05	2714	2688.67	10.4
	50	rnd	2701	2695.73	1.7	2702	2696.73	2.36	2706	2697.67	5.35	2706	2696.2	7.06
	20	rnd	2708	2685.57	11.53	2712	2692	10.75	2708	2688.43	11.38	2710	2687.43	12.39
		2op	2706	2695.7	4.06	2712	2697.03	7.23	2707	2693.3	10.89	2709	2692.83	10.91

Table A.681: f_{100_512} : basicRRGA+IM: 5000 – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2696	2674.67	11.83	2707	2676	12.46	2700	2678.37	13.42	2705	2676.8	13.9
		2op	2698	2692.43	4.27	2700	2695.2	1.99	2704	2692.97	6.91	2711	2696.8	5.95
	50	rnd	2704	2676.23	11.48	2710	2672.87	15.96	2703	2678.53	15.57	2699	2676.27	13.35
51	20	rnd	2695	2692.5	3.7	2698	2693.6	3.38	2700	2694.37	5.16	2706	2696.8	4.57
		2op	2700	2692.47	3.99	2700	2694.37	3.7	2704	2681.07	13.32	2706	2679.83	14.69
	50	rnd	2699	2673.2	16.27	2702	2677.8	15.11	2702	2676.77	15.61	2696	2675.67	16.04
	20	rnd	2698	2691.63	4.16	2695	2694.93	0.37	2700	2695.4	2.16	2713	2695.6	5.02
		2op	2698	2691.63	4.16	2695	2694.93	0.37	2700	2695.4	2.16	2713	2695.6	5.02

Table A.682: f_{100_512} : transRRGA – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2698	2679.63	12.41	2694	2676.1	13.03	2708	2682.43	13.32	2710	2684.7	12.84
		2op	2698	2692.47	3.77	2700	2695.5	3.3	2700	2694.13	2.78	2709	2693.1	7.42
	50	rnd	2695	2673.97	11.9	2704	2680.33	14.29	2704	2678	14.33	2704	2679.63	14.73
51	20	rnd	2695	2692.07	3.92	2700	2695.33	2.02	2702	2694.97	4.19	2711	2695.57	6.09
		2op	2696	2678.07	11.66	2701	2673.23	15.52	2701	2679.1	13.71	2698	2677.97	11.79
	50	rnd	2699	2692.23	4.17	2700	2693.97	3.03	2705	2695.57	4.03	2705	2695.5	6.33
	20	rnd	2698	2678.9	11.21	2702	2681.7	12.63	2697	2676.4	12.96	2702	2679.47	16.14
		2op	2695	2692.33	3.84	2695	2694.53	2.56	2703	2695.53	3.48	2702	2694.3	6.02

Table A.683: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17829	17710.3	67.8	17854	17713	69.24	17848	17727	69.52	17794	17699.4	59.2
		2op	17832	17759.53	44.93	17887	17747.4	81.65	17807	17752	40.6	17821	17736	48.76
	50	rnd	17794	17717.47	51.88	17799	17669.2	104.31	17803	17679.67	73.81	17786	17678.7	96.76
51	20	rnd	17841	17760.57	49.05	17838	17740.33	75.33	17845	17742.37	69.93	17836	17733.23	76.88
		2op	17805	17691.9	73.87	17800	17716.1	56.92	17834	17733.93	67.48	17817	17708.53	58.78
	50	rnd	17812	17773.97	20.54	17835	17779.37	41.62	17847	17768.5	48.76	17835	17748.33	62.15
	20	rnd	17803	17690.83	75.15	17803	17726.93	54.65	17828	17690.8	85.72	17817	17698.03	74.85
		2op	17834	17779.1	31.22	17839	17764.83	56.04	17867	17744.23	58.34	17836	17751.8	50.93

Table A.684: *f508_354*: basicRRGA – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17888	17728.1	62.72	17861	17710.33	80.12	17781	17691.73	70.1	17790	17689.83	51.19
		2op	17835	17766.43	38.93	17851	17759.33	59.1	17836	17767.9	46.39	17829	17732.37	70.8
	50	rnd	17826	17682	84.52	17845	17714.67	63.18	17795	17685.17	72.24	17798	17698.03	72.63
51	20	rnd	17842	17778.63	39.67	17853	17756.2	68.78	17848	17748.5	65.45	17854	17742.63	51.67
		2op	17832	17693.23	73.09	17799	17681.97	86.68	17827	17704.97	76.67	17806	17697.57	76.32
	50	rnd	17849	17777.67	31.75	17825	17760.47	44.49	17830	17765.3	52.32	17871	17774.6	45.93
	20	rnd	17790	17695.23	73.88	17810	17690.87	114.04	17828	17721.63	66.82	17837	17710.33	66.24
		2op	17823	17764.43	31.9	17846	17752.8	51.95	17854	17755.63	55.15	17844	17758.8	67.6

Table A.685: *f508_354*: basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17823	17707.83	72.29	17810	17708.47	45.77	17822	17714.2	60.71	17802	17722.7	59.66
		2op	17814	17778.57	17.71	17815	17774.83	25.74	17837	17771	38.87	17848	17781.43	41.77
	50	rnd	17841	17681.53	94.41	17788	17658.53	84.97	17802	17708.5	59.39	17877	17707.8	86.46
51	20	rnd	17817	17770.83	21.51	17849	17775.83	28.32	17874	17774.67	37.5	17828	17767.23	30.44
		2op	17841	17694.9	83.92	17853	17697.63	73.54	17808	17708.87	66.11	17827	17685.7	72.91
	50	rnd	17806	17775.77	9.58	17802	17775.17	8.91	17812	17781.53	11.43	17817	17788.33	20.65
	20	rnd	17784	17708.93	53.35	17805	17675.03	84.91	17793	17704.73	63.07	17802	17695.07	74.85
		2op	17789	17774.77	7.49	17813	17778.47	12.14	17830	17784.93	15.97	17843	17791.93	20.28

Table A.686: *f508_354*: basicRRGA+IM: 500 – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17850	17714.67	66.88	17834	17711.97	76.41	17816	17711.73	65.35	17806	17706.97	46.16
		2op	17813	17775.93	18.39	17838	17773.8	22.16	17872	17795.13	28.54	17876	17768.57	43.94
	50	rnd	17801	17729.73	58.07	17807	17690.7	70.79	17811	17721.2	64.02	17832	17709.63	72.19
51	20	rnd	17847	17780.57	19.76	17846	17778.93	36.67	17824	17773.7	37.23	17845	17761	48.52
		2op	17900	17712.33	102.09	17827	17708.37	82.35	17808	17694.93	97.71	17851	17707.6	90.18
	50	rnd	17806	17774.1	8.4	17825	17782.7	14.21	17825	17793.03	17.73	17814	17753.7	39.79
	20	rnd	17828	17726.13	60.56	17853	17720.67	70.08	17798	17706.77	49.34	17801	17712.83	58.96
		2op	17813	17776.27	11.02	17826	17784.07	12.57	17831	17781.9	32.36	17851	17755.9	43.88

Table A.687: f_{508_354} : basicRRGA+IM: 5000 – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17809	17710.93	61.42	17805	17709.77	60.03	17817	17706.8	54.94	17780	17709.23	67.46
		2op	17787	17771.33	4.33	17812	17773.03	8.42	17788	17774.43	7.2	17806	17777.13	11.63
	50	rnd	17829	17727.57	66.47	17824	17709.47	58.69	17789	17688.1	75.1	17794	17706.37	53.61
51	20	rnd	17787	17771.03	3.25	17813	17777.17	10.61	17796	17773.93	7.38	17795	17776	8.58
		2op	17837	17698	55.4	17796	17698.9	66.68	17816	17720.33	53.51	17839	17700.63	76.47
	50	rnd	17787	17771.7	5.19	17806	17775.03	10.21	17830	17778.43	14.08	17796	17777.57	10.11
	20	rnd	17805	17709.33	72.49	17829	17713.73	61.28	17820	17714.8	54.75	17853	17714.9	74.11
		2op	17787	17771.47	3.5	17795	17775.4	7.54	17813	17777.9	12.15	17796	17776.6	7.88

Table A.688: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17808	17718.87	43.2	17818	17697.07	70.75	17816	17686.8	69.42	17837	17698.67	59.24
		2op	17802	17772.1	6.51	17795	17773.07	6.3	17789	17773.03	6.13	17811	17780.43	10.7
	50	rnd	17815	17710.17	79.09	17853	17702.43	81.15	17795	17705.23	47.46	17820	17690.7	65.94
51	20	rnd	17795	17772.87	6.64	17795	17773.13	6.44	17812	17774.7	9.35	17816	17778.4	12.22
		2op	17868	17705.67	70.84	17828	17698.83	85.24	17785	17699.67	62.2	17858	17716.7	63
	50	rnd	17787	17773.33	5.73	17795	17775.5	7.97	17809	17777.53	11.1	17806	17778	10.07
	20	rnd	17851	17724.47	58.01	17828	17708.5	67.58	17810	17720.53	51.06	17810	17710.03	52.94
		2op	17815	17773.27	9.57	17812	17774.77	10.62	17830	17777.5	13.42	17806	17775.53	8.77

Table A.689: f_{508_354} : transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22149	21915.7	101.64	22116	21935.53	99.87	22082	21962.27	87.9	22044	21925.47	74.53
		2op	22116	22036.27	50.58	22151	22005.33	78.12	22153	22005.2	81.93	22122	22003.2	99.96
	50	rnd	22106	21937.3	85.04	22036	21880.37	156.04	22084	21924.3	135.43	22123	21921.87	98.17
51	20	rnd	22141	22035	54.28	22155	22022.4	81.56	22091	21999.2	80.08	22126	21999.6	66.86
		2op	22073	21905.77	89.36	22064	21913.83	147.92	22102	21918	98.35	22044	21925.2	98.66
	50	rnd	22107	22048.43	30.89	22119	22032.13	46.01	22125	22008.37	58.92	22113	22032.23	46.09
	20	rnd	22089	21913.17	108.64	22127	21919.23	130.66	22105	21935.63	84.02	22091	21906.2	174.65
		2op	22130	22031.97	52.56	22128	22017	52.36	22110	22029.37	62.97	22089	22014.5	59.81

Table A.690: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22136	21922.43	79.64	22016	21913.13	76.83	22113	21961.33	75.62	22050	21938.53	78.02
		2op	22120	22035.53	52.9	22164	22010.1	70.81	22123	21982.17	100.35	22132	22001.03	54.35
	50	rnd	22101	21935.73	74.68	22093	21926.87	139.42	22099	21938.3	93.36	22086	21926.33	102.29
51	20	rnd	22097	22006.83	54.45	22126	22006.93	72.24	22084	21965.87	95.44	22080	21976.7	89.16
		2op	22056	21943.33	59.28	22083	21947.93	71.16	22022	21916.63	86.4	22077	21912.6	89.12
	50	rnd	22095	22039.4	32.56	22144	22015.97	60.01	22152	22046.47	61.28	22113	22008.8	48.55
	20	rnd	22058	21887.47	116.18	22037	21916.9	83.22	22077	21910.6	105.69	22037	21946.13	81.36
		2op	22155	22040.6	41.53	22146	22009.73	56.21	22108	22010.8	71.84	22108	21999.8	88.51

Table A.691: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22096	21906.87	93.08	22078	21901.4	89.68	22116	21946.5	90.93	22050	21908.53	99.55
		2op	22116	22049.13	16.7	22098	22047.2	28.54	22148	22040.9	46.81	22103	22030.5	61.07
	50	rnd	22096	21910.23	87.62	22059	21933.57	81.96	22079	21931.03	94.91	22044	21913.77	125.72
51	20	rnd	22110	22041.77	25.44	22124	22057.13	31.56	22150	22043.53	50.05	22104	22028.03	49.5
		2op	22037	21905.17	93.74	22091	21944.97	70.57	22052	21952.3	95.61	22080	21940.07	88.24
	50	rnd	22051	22047.13	0.73	22094	22049	9.09	22084	22049.2	9.33	22136	22062.87	34.57
	20	rnd	22057	21930.87	73.42	22068	21919.73	102.33	22076	21921.97	90.13	22121	21923	86.6
		2op	22056	22046.47	4.9	22083	22046.8	10.14	22096	22049.23	10.69	22134	22059.07	36.93

Table A.692: f_{635_350} : basicRRGA+IM: 500 – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22047	21918.27	79.29	22080	21925.53	78.71	22070	21903.17	103.85	22060	21925.27	88.74
		2op	22087	22044.7	14.15	22099	22046.83	28.46	22145	22065.67	40.86	22135	22011.67	63.93
	50	rnd	22079	21919.73	85.15	22082	21907.17	120.11	22066	21937.87	83.87	22059	21925.17	85.65
51	20	2op	22100	22046.57	16.13	22122	22041.4	40.57	22154	22050.53	55.92	22088	21974.4	69.43
		rnd	22034	21916.67	67.93	22084	21925.27	112.33	22065	21952.9	69.97	22092	21928.33	72.91
	50	2op	22047	22047	0	22093	22049.47	9.98	22107	22057.7	29.8	22160	22027.17	61.34
	20	rnd	22053	21949.77	67.17	22125	21941.9	78.56	22075	21921.63	98.01	22078	21931.23	90.58
		2op	22051	22047.4	1.22	22083	22050.53	8.53	22115	22047.93	54.46	22128	22018.97	64.41

Table A.693: f_{635_350} : basicRRGA+IM: 5000 – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22038	21921.87	65.85	22076	21927.13	71.67	22092	21930.23	78.26	22076	21925.1	84.7
		2op	22047	22047	0	22083	22048.33	6.59	22047	22047	0	22064	22047.5	3.66
	50	rnd	22142	21928.03	87.56	22074	21943.77	75.86	22049	21909.53	88.06	22036	21929.13	56.56
51	20	2op	22047	22047	0	22051	22047.13	0.73	22092	22048.07	8.63	22051	22046.93	1.34
		rnd	22089	21955.27	79.71	22068	21941.9	61.51	22119	21923.4	72.49	22049	21939.23	61.81
	50	2op	22051	22047.13	0.73	22051	22047.27	1.01	22051	22047.13	0.73	22075	22047.77	5.78
	20	rnd	22061	21921.1	75.26	22056	21932.4	79.05	22040	21913.7	79.59	22068	21924.13	67.48
		2op	22051	22047.13	0.73	22047	22047	0	22051	22047.27	1.01	22047	22046.6	2.19

Table A.694: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22038	21918.67	66.43	22039	21916.1	64.83	22076	21900.17	100.98	22065	21932.43	77.67
		2op	22047	22047	0	22047	22047	0	22051	22047.4	1.22	22051	22047.67	1.52
	50	rnd	22056	21912.27	88.49	22079	21909.97	97.82	22077	21929.87	63.5	22038	21944.4	71.21
51	20	2op	22047	22047	0	22051	22047.13	0.73	22051	22047.27	1.01	22060	22047.3	2.51
		rnd	22080	21917.97	73.76	22069	21948.9	53.83	22041	21923.73	82.81	22042	21920.93	80.34
	50	2op	22047	22047	0	22051	22047.27	1.01	22055	22047.27	1.46	22051	22046.53	4.47
	20	rnd	22047	21929.23	67.23	22062	21925.07	69.82	22069	21940.6	83.39	22101	21912.1	95.6
		2op	22047	22047	0	22047	22047	0	22051	22047.13	0.73	22051	22047.13	0.73

Table A.695: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24628	24457.13	155.02	24645	24467.37	132.29	24659	24500.73	99.74	24679	24471.07	91.61
		2op	24681	24544.47	75.86	24705	24533.43	102.85	24690	24546.73	90.86	24702	24527.6	90.08
	50	rnd	24698	24535.67	97.66	24656	24472.13	128.95	24744	24477.9	154.86	24624	24500.8	67.81
51	20	2op	24694	24548.37	67.1	24707	24513.57	106.44	24678	24539.07	100.09	24697	24496.63	127.17
		rnd	24666	24458.63	158.39	24612	24466.97	108.1	24649	24459.6	95.45	24686	24524.87	99.44
	50	2op	24662	24555.7	54.71	24656	24548.03	74.87	24667	24513.07	90.13	24673	24534.7	105.98
	20	rnd	24697	24468.73	165.1	24651	24450.6	166.83	24646	24495.1	88.52	24654	24472.67	88.94
		2op	24645	24540.07	56.58	24618	24515.43	70.92	24690	24539.4	110.13	24700	24522.97	114.88

Table A.696: $f737_355$: basicRRGA – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24656	24485.4	90.39	24627	24482.87	111.29	24668	24525	85.56	24593	24473.93	84.91
		2op	24673	24532.27	75.53	24674	24530.53	120.41	24695	24528.73	114.42	24684	24534.93	114.54
	50	rnd	24684	24515.23	100.21	24662	24484.33	138.42	24675	24511.97	95.83	24663	24523.7	87.7
51	20	2op	24685	24556.73	80.88	24656	24536.63	98.15	24691	24539.53	100.09	24671	24557.63	63.03
		rnd	24656	24485.47	102.38	24664	24525.67	85.33	24703	24525.33	78.45	24638	24496.33	110.51
	50	2op	24686	24540.83	61.54	24657	24525.33	71.72	24691	24545.57	95.46	24679	24556.63	83.51
	20	rnd	24615	24474.1	82.88	24643	24504.2	85.72	24638	24452.6	139.08	24701	24477.97	109.06
		2op	24634	24541.67	52.45	24672	24547.23	80.1	24673	24520.07	95.79	24700	24546.53	94.28

Table A.697: $f737_355$: basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24635	24495.57	97.72	24670	24483.8	103.98	24630	24507.13	88.8	24657	24486	107.35
		2op	24640	24539.43	40.63	24659	24542.03	51.57	24683	24571.2	69.68	24665	24568.93	56.28
	50	rnd	24651	24469.77	91.63	24638	24489.17	91.08	24625	24466.27	97.38	24646	24514.5	91.84
51	20	2op	24675	24550.97	49.5	24620	24548.73	48.38	24706	24564.33	65.34	24669	24559.47	44.11
		rnd	24624	24503.57	82.43	24642	24509.37	93.95	24623	24442.4	178.82	24632	24472.4	125.08
	50	2op	24552	24521.07	8.55	24597	24530	21.65	24632	24550.97	40.13	24717	24563.43	66.53
	20	rnd	24643	24475	103.58	24622	24462.77	124.05	24702	24514.13	105.72	24630	24483.97	90.17
		2op	24598	24525.3	16.92	24617	24539.67	35.07	24604	24540.47	28.91	24648	24570.17	45.33

Table A.698: $f737_355$: basicRRGA+IM: 500 – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24699	24514.2	95.92	24599	24472.23	84.86	24652	24496.3	109.4	24635	24459.37	94.95
		2op	24659	24550.27	43.15	24680	24568.03	64.97	24684	24560.57	76.82	24686	24541.73	61.92
	50	rnd	24653	24484.73	178.55	24615	24481.53	95.77	24712	24462.5	143.67	24613	24471.6	99.87
51	20	rnd	24654	24567.7	46.59	24652	24558.1	53.61	24656	24570.7	68.13	24678	24558.6	77.45
		2op	24645	24504.93	95.89	24664	24475.17	103.13	24707	24513.1	94.48	24606	24498.4	96.38
	50	rnd	24598	24530.2	23.89	24636	24540.83	41.39	24667	24562	54	24685	24566.47	82.54
	20	rnd	24654	24532.13	80	24687	24490	102.87	24686	24488.43	106.24	24639	24512.8	91.9
		2op	24612	24533.2	25.77	24657	24559.8	43.51	24699	24559.17	61.91	24702	24566.6	62.28

Table A.699: f_{737_355} : basicRRGA+IM: 5000 – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24690	24525.07	84.04	24640	24504.2	86.28	24657	24508.5	113.45	24620	24513.37	101.96
		2op	24598	24525.37	14.51	24547	24521.17	7.64	24635	24528.2	25.23	24604	24526.57	21.55
	50	rnd	24615	24499.57	65.55	24704	24489.77	96.71	24637	24509.43	65.06	24657	24524.37	77.33
51	20	rnd	24635	24529.03	21.72	24635	24534.1	31.07	24598	24531.27	24.8	24614	24524.97	18.3
		2op	24643	24497.3	86.39	24593	24483.07	76.94	24682	24487.67	143.43	24682	24512.17	90.24
	50	rnd	24598	24526.57	16.54	24598	24527.3	22.08	24585	24525.47	18.29	24598	24524.13	24.62
	20	rnd	24629	24501	82.48	24692	24508.8	89.41	24679	24501.9	93.78	24687	24517.4	121.25
		2op	24525	24523.07	2.79	24619	24526.9	25.12	24635	24525.97	23.38	24611	24536.2	32.22

Table A.700: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24683	24509	97.53	24686	24494.97	91.38	24689	24472.5	109.58	24725	24505	92.6
		2op	24598	24525.37	14.04	24598	24531.3	22.73	24598	24524.4	15.51	24581	24522.9	15.36
	50	rnd	24607	24480.9	81.89	24604	24478.7	97.06	24631	24502.73	76.74	24669	24505.73	107.13
51	20	rnd	24598	24527.63	16.14	24598	24527.1	19.15	24604	24529.2	21.68	24585	24531.7	19.04
		2op	24705	24517.57	87.3	24615	24522.1	84.83	24611	24498.27	78.08	24695	24464.5	115.08
	50	rnd	24598	24524.93	14.73	24547	24522.63	8.4	24612	24526.23	22.16	24644	24525.83	26.7
	20	rnd	24627	24494	79.92	24692	24495.87	95.09	24658	24520.07	81.85	24675	24513.93	91.49
		2op	24598	24526.33	14.66	24635	24528.53	25.59	24598	24524.53	16.56	24579	24523.33	15.49

Table A.701: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47747	47362.63	178.22	47709	47382.13	215.14	47670	47431.2	180.19	47700	47504.5	189.55
		2op	47808	47564.27	100.29	47833	47627.97	158.06	47878	47576.23	197.3	47830	47569.83	145.97
	50	rnd	47689	47403.1	276.33	47793	47402.27	350.44	47764	47368.87	260.89	47849	47424.3	219.49
51	20	2op	47817	47577.4	118.59	47826	47614.43	166.78	47877	47632.03	168.74	47802	47561.6	216.2
		rnd	47722	47291.3	357.98	47804	47440.8	232.11	47795	47425.87	183.35	47789	47422.63	194.23
	50	2op	47695	47543.73	52.9	47783	47539.33	146.78	47862	47627.47	97.86	47928	47605.63	124.04
	20	rnd	47803	47363.73	312.6	47735	47383.2	258.77	47759	47357.43	247.32	47713	47407.43	251.84
		2op	47735	47576.03	84.28	47846	47547.57	140.4	47828	47565.3	150.73	47859	47580.53	152.57

Table A.702: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47664	47397.27	170.08	47760	47528.27	158.71	47837	47411.67	219.63	47836	47396.3	224.22
		2op	47804	47569.7	102.61	47893	47547.13	215.17	47848	47587.3	190.61	47922	47609.37	150.05
	50	rnd	47800	47262.83	442.87	47719	47384.7	270.15	47695	47353.7	329.48	47801	47466.53	265.74
51	20	2op	47766	47575.57	102.48	47826	47550.37	158.64	47806	47582.97	179.28	47832	47591.73	164.69
		rnd	47744	47358.53	196.6	47760	47467.63	154.52	47824	47429.63	313.9	47702	47406.47	339.66
	50	2op	47756	47582.8	89.19	47861	47609.63	145.18	47874	47632.8	134.52	47861	47580.03	167.42
	20	rnd	47739	47299.93	346.18	47786	47346.47	326.93	47710	47435.03	168.47	47777	47374.3	347.38
		2op	47703	47561.27	69.47	47814	47563.67	144.69	47804	47571.3	174.55	47884	47597.9	174.17

Table A.703: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47740	47422.33	257.46	47846	47401.83	222.61	47760	47367.37	333.31	47755	47431.87	207.11
		2op	47803	47578.9	82.52	47801	47613.67	92.75	47840	47639.7	148.97	47874	47601.43	94.61
	50	rnd	47707	47401.03	268.21	47770	47366.47	283.71	47711	47367.43	189.01	47837	47494.97	232.16
51	20	2op	47791	47607.33	87.83	47818	47618.8	103.53	47862	47590.23	142.87	47777	47667.57	56.31
		rnd	47713	47351.63	275.42	47791	47362.13	231.34	47753	47408.6	204.66	47677	47354.43	297.31
	50	2op	47768	47576.2	56.87	47776	47580.77	60.5	47734	47644	70.54	47819	47659.53	73.31
	20	rnd	47747	47336.17	310.75	47715	47423.07	215.21	47774	47383.9	212.2	47780	47444.47	191.21
		2op	47715	47579.2	50.14	47822	47606.03	78.08	47731	47614.43	66.93	47860	47649.63	101.75

Table A.704: f_{1343_354} : basicRRGA+IM: 500 – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47761	47368.8	198.99	47727	47438.6	172.46	47725	47417.73	223.85	47780	47465.77	155.87
		2op	47775	47570.6	73.62	47853	47607.27	117.85	47840	47617.3	128.96	47877	47641.43	135.31
	50	rnd	47711	47350.73	364.78	47683	47413.1	203.28	47792	47406.03	192.09	47764	47406	170.75
51	20	rnd	47677	47401.4	236.78	47680	47383.17	233.97	47774	47448.7	234.05	47856	47505.73	164.41
		2op	47715	47588.8	57.87	47671	47583.1	39.72	47776	47623.1	83.25	47851	47649.87	104.9
	50	rnd	47661	47380.43	329.4	47752	47432.2	181.15	47835	47369.93	200.86	47826	47383.43	185.47
		2op	47683	47570.37	34.86	47797	47628.4	74.45	47798	47656	98.93	47806	47595.77	151.62

Table A.705: f_{1343_354} : basicRRGA+IM: 5000 – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47774	47492.6	133.26	47771	47508.07	164.65	47775	47424.73	185.29	47705	47489.47	117.77
		2op	47789	47630.83	39.81	47748	47618.1	58.57	47748	47618.93	73.15	47713	47586.2	48.14
	50	rnd	47685	47409.1	184.75	47755	47462.33	171.73	47749	47478.5	182.62	47702	47405.2	234.34
51	20	rnd	47748	47638.13	52.69	47748	47622.5	59.31	47747	47598.63	60.32	47782	47591.03	72.38
		2op	47639	47442.2	138.1	47785	47476.53	190.62	47710	47464.47	137.02	47840	47452.6	181.22
	50	rnd	47748	47610.53	51.73	47762	47612.07	78.31	47841	47629.97	84.21	47762	47612.9	72.08
		2op	47763	47461.53	163.9	47785	47496.4	158.83	47764	47490.57	175.44	47790	47517.7	160.34
		2op	47747	47624.57	40.99	47722	47587.83	52.25	47704	47590.6	48.73	47762	47586.67	50.95

Table A.706: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47771	47464.03	174.85	47794	47450.33	154.6	47663	47405.33	162.45	47862	47467.1	162.19
		2op	47747	47619.43	39.11	47704	47608.5	44.95	47731	47588.87	47.54	47745	47588.73	57.91
	50	rnd	47767	47422.07	206.61	47736	47423.8	190.56	47599	47426.57	121.03	47709	47417.23	153.78
51	20	rnd	47704	47623.43	35	47748	47620.57	64.7	47747	47607.37	63.45	47724	47607.6	63.7
		2op	47712	47504.37	117.59	47850	47488.07	150.81	47778	47413.77	195.76	47746	47456.53	207.11
	50	rnd	47748	47620.03	50.59	47748	47604.83	66.09	47752	47603.07	69.28	47767	47602.4	68.84
		2op	47879	47516.77	130.92	47820	47514.23	157.88	47771	47509.3	144.68	47824	47498.63	149.13
		2op	47789	47636.6	68.53	47748	47603.13	59.24	47768	47611.3	70.64	47731	47609.53	61.21

Table A.707: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55855	55436.3	224.92	55683	55306.13	389.52	55891	55312.8	375.42	55744	55392.77	205.88
		2op	55825	55645.53	72.46	55889	55630.03	166.69	55833	55620.03	145.15	55998	55590.83	273.5
	50	rnd	55890	55372.63	344.21	55735	55460.33	166.99	55830	55273.23	362.21	55724	55353.63	323.6
51	20	rnd	55872	55631.27	78.02	55904	55607.87	177.75	55938	55663.03	184	55944	55616.27	196.41
		2op	55848	55471.07	232.17	55779	55325.83	460.04	55650	55279.27	371.87	55789	55438.6	231.43
	50	rnd	55789	55667.4	44.37	55959	55654.8	144.88	55872	55563.93	233.33	55963	55617.73	163.01
	20	rnd	55712	55255.3	401.79	55801	55351.63	320.6	55781	55374.17	250.29	55849	55272.27	467.7
		2op	55823	55663.6	47.67	55884	55653.57	119.79	55981	55655.13	178.93	55882	55671	180.18

Table A.708: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55786	55338	339.65	55917	55319.4	310.02	55747	55233.07	412.58	55737	55441.03	226.59
		2op	55818	55633.67	84.15	55958	55625.5	181.89	55867	55623.23	180.9	55926	55655.47	173.77
	50	rnd	55695	55259.6	353.1	55778	55295.17	372.17	55715	55452.57	134.67	55801	55431.33	231.01
51	20	rnd	55863	55626.5	79.86	55906	55622.9	144.45	55864	55626.23	172.92	55907	55596.83	274.34
		2op	55736	55349	350.28	55820	55316.87	428.4	55872	55409.83	375.27	55788	55355.17	297.99
	50	rnd	55848	55663.07	57.4	55810	55652.07	126.4	55831	55637.53	127.52	55833	55636.7	167.54
	20	rnd	55727	55339.5	328.45	55703	55216.03	358.92	55790	55457	204.26	55673	55354.57	342.89
		2op	55774	55665.73	42.98	55808	55629.8	111.21	55937	55639.4	158.81	55888	55661.43	150.72

Table A.709: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55806	55386.63	326.14	55721	55276.63	386.31	55907	55453.93	258.85	55753	55406.3	171.97
		2op	55859	55699.67	44.35	55796	55673.2	91.12	55888	55655.3	118.29	55868	55668.07	138.25
	50	rnd	55689	55309.27	340.01	55741	55242.57	428.47	55715	55368.5	418.68	55893	55388.37	366.83
51	20	rnd	55762	55684.17	25.6	55822	55649.37	95.16	55885	55699.57	89.21	55953	55660.93	142.64
		2op	55718	55248.5	359.34	55682	55357.6	306.4	55798	55368.83	373.87	55707	55386.97	203.9
	50	rnd	55775	55707.7	23.44	55763	55696.8	26.03	55731	55686.37	19.39	55873	55707.9	68.87
	20	rnd	55838	55347.5	327.59	55823	55431.9	338.9	55608	55129.43	442.5	55676	55314.9	238.94
		2op	55764	55711.8	20.5	55765	55694.37	31.06	55844	55699.67	46.18	55800	55691.97	76.97

Table A.710: f_{1577_354} : basicRRGA+IM: 500 – Suspected Optimal is 57373

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55917	55347.7	259.41	55851	55385.27	363.04	55733	55429.13	217.43	55800	55391.37	205.26
		2op	55833	55713.33	40.97	55780	55641.03	93.87	55942	55684.77	109.35	55830	55670.6	95.78
	50	rnd	55781	55384.3	243.34	55846	55472.37	189.5	55676	55388.77	190.57	55823	55410.07	209.06
51	20	rnd	55830	55685.47	43.97	55869	55668.83	108.13	55892	55671.43	121.98	55928	55631	203.74
		2op	55935	55357.33	251.67	55686	55335.73	224.55	55756	55412.13	235.59	55854	55481.17	220.6
	50	rnd	55732	55703.87	21.49	55751	55689.33	23.25	55808	55700.3	68.55	55875	55644.67	154.02
	20	rnd	55654	55355.27	224.86	55825	55397.4	365.02	55843	55406.53	241.42	55716	55424.53	230.44
		2op	55732	55707.17	23.08	55837	55703.17	57.04	55831	55700.17	88.81	55882	55652.1	170.58

Table A.711: f_{1577_354} : basicRRGA+IM: 5000 – Suspected Optimal is 57373

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55657	55374.97	203.19	55720	55369.7	233.8	55845	55456.33	234.81	55759	55374.3	246.28
		2op	55742	55653.33	18.04	55742	55671.83	28.25	55741	55675.33	27.67	55740	55697	22.71
	50	rnd	55894	55460.4	236.67	55728	55474.43	192.3	55840	55471.43	254.45	55823	55461.97	278.98
51	20	rnd	55660	55648.57	2.34	55748	55676	30.58	55775	55693.2	34.35	55740	55688.57	20.89
		2op	55720	55398.83	259.89	55758	55451.17	170.1	55745	55395.07	201.54	55658	55384.07	209.5
	50	rnd	55741	55658.33	20.8	55770	55677.33	28.28	55788	55684.3	26.87	55741	55704.33	18.73
	20	rnd	55799	55419.73	222.01	55749	55481.63	198.85	55752	55489.1	177.94	55749	55498.27	148.41
		2op	55742	55655.43	19.86	55725	55669.77	25.87	55770	55685.63	27.52	55741	55699.27	21.01

Table A.712: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			5 Restarts			10 Restarts			20 Restarts		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55793	55473.13	192.78	55764	55448.23	195.29	55725	55425.5	194.06	55782	55440.8	223.76
		2op	55768	55659.9	29.27	55742	55667.67	24.79	55742	55683.6	30.55	55724	55688.7	19.23
	50	rnd	55696	55435.5	208.58	55835	55484.17	190.8	55900	55458.3	215.77	55782	55421.93	248.13
51	20	rnd	55737	55652.17	17.43	55720	55659.8	21.56	55775	55676.7	30.51	55781	55691.93	36.09
		2op	55754	55399.63	172.01	55710	55457.73	188.79	55883	55375.43	208.98	55712	55415.73	208.83
	50	rnd	55742	55657.57	22.55	55743	55682.63	31.38	55749	55690.17	28.05	55743	55695.97	24.66
	20	rnd	55703	55391.3	189.18	55840	55408.53	216.07	55711	55449.47	193.32	55943	55487.4	161.97
		2op	55742	55663.8	29.5	55748	55674.77	27.8	55732	55685.47	25.85	55761	55703.77	24.37

Table A.713: f_{1577_354} : transRRGA+RS – Suspected Optimal is 57373

A.6.2 Second Set of Results

Results With No Post Optimization and No Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46637	46316.97	250.01	46274	45406.8	565.78	43622	43622	0	43622	43622	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	46680	46321.1	174.79	46559	45932.87	347.81	43627	43622.17	0.91	43622	43622	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
51	20	rnd	46790	46515.33	149.75	46758	46441.4	144.39	45985	44882.87	485.79	43622	43622	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	46821	46505.63	183.94	46784	46443.57	180.18	46317	45669.83	361.7	43622	43622	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0

Table A.714: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46499	46277.77	160.12	47075	46874.63	80.05	46306	45854.67	195.16	45254	44577.47	354.6
		2op	47343	47294.93	21.32	47290	47274.97	3.29	47274	47274	0	47274	47274	0
	50	rnd	46527	46312.17	113	47262	47108.93	69.25	46546	46152.73	213.53	45809	45293.93	198.09
		2op	47354	47305.23	19.48	47363	47294	24.52	47287	47274.43	2.37	47274	47274	0
51	20	rnd	46624	46378.27	123.42	47312	47172.4	57.75	46846	46587.5	188.99	46039	45695.3	229.93
		2op	47385	47294.9	23.54	47364	47311.13	23.24	47285	47274.67	2.55	47274	47274	0
	50	rnd	46579	46282.23	145.51	47344	47226.27	56.86	47111	46795.97	144	46255	45854.87	162.33
		2op	47355	47303.73	22.05	47388	47341.07	24.77	47284	47274.33	1.83	47274	47274	0

Table A.715: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46494	46277.23	155.16	46075	45539.33	283.85	43622	43622	0	43622	43622	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	46723	46311.7	198.41	46450	45928.3	285.16	44226	43647.13	111.02	43622	43622	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
51	20	rnd	46995	46490.23	202.09	46995	46406.17	258.89	45752	44968.07	498.1	43622	43622	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	46887	46493.87	207.73	46850	46441.83	213.39	46238	45655.63	288.48	43659	43623.23	6.76
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0

Table A.716: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46532	46282.33	149.01	47153	46880.57	134.36	46130	45835.77	152.16	45216	44700.7	358.07
		2op	47382	47301.63	26.11	47305	47277.23	8.66	47274	47274	0	47274	47274	0
	50	rnd	46563	46299.77	145.28	47190	47070.9	68.19	46492	46033.77	190.87	45770	45121.27	372.8
51	20	rnd	47379	47308.87	26.88	47392	47294.33	30.32	47274	47274	0	47274	47274	0
		2op	46574	46297.53	134.86	47310	47170.87	74.42	47008	46619.03	140.68	46035	45638.9	206.17
	50	rnd	47333	47294.8	20.27	47408	47317.7	30.75	47317	47275.43	7.85	47274	47274	0
	20	rnd	46507	46298.23	130.42	47351	47228.17	70.33	47057	46791.03	105.5	46169	45777.87	198.52
		2op	47356	47305.17	21.48	47426	47351.63	27.85	47340	47278.53	13.12	47274	47274	0

Table A.717: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46902	46631.5	148.53	46902	46609.3	151.49	43700	43624.6	14.24	43622	43622	0
		2op	47279	47274.17	0.91	47276	47274.07	0.37	47274	47274	0	47274	47274	0
	50	rnd	46921	46684.67	128.9	46889	46675.9	129.13	44331	43696.6	187.36	43622	43622	0
51	20	rnd	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
		2op	47139	46924.93	93.92	47139	46923.07	96.28	46455	45780.7	500	43622	43622	0
	50	rnd	47349	47289.73	21.2	47349	47289.73	21.2	47274	47274	0	47274	47274	0
	20	rnd	47177	47039.63	82.98	47173	47032.17	82.79	46676	46101.23	392.24	43622	43622	0
		2op	47426	47296.77	39.04	47426	47296.7	38.92	47274	47274	0	47274	47274	0

Table A.718: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46636	46447.77	122.03	46595	46401.03	117.6	46234	45912.53	172.63	45010	44303.53	313.75
		2op	47347	47299.77	20.62	47342	47286.93	19.13	47274	47274	0	47274	47274	0
	50	rnd	46697	46509.83	88.91	46983	46643	136.12	46325	46122.37	123.11	45628	45016.2	257.02
51	20	rnd	47353	47317.77	20.88	47331	47296.7	19.94	47274	47274	0	47274	47274	0
		2op	46713	46511.7	85.81	46932	46695.43	123.11	46477	46289.43	92.35	45819	45508.63	221.73
	50	rnd	47364	47317.07	20.43	47353	47306.17	19.32	47284	47274.33	1.83	47274	47274	0
	20	rnd	46964	46551.53	133.6	47034	46801.1	84.89	46721	46271.37	169.1	46040	45671.43	175.01
		2op	47369	47320.13	21.14	47323	47288.8	13.78	47290	47274.53	2.92	47274	47274	0

Table A.719: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	146586	144292.9	1085.8	142950	142855.27	17.89	142852	142852	0	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	145504	143876.27	850.18	144805	143245.57	608.41	142852	142852	0	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
51	20	rnd	147308	145387.5	1147.34	146967	144961.43	1156.83	143271	142865.97	76.5	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	147089	145236.67	1136.68	147044	145067.37	1124.19	145178	143303.53	749.64	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0

Table A.720: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147160	146408.87	588.7	146756	145064.43	849.72	145582	143527.1	814.37	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	147488	146688	514.07	147560	146660.97	610.72	146663	144387.73	1083.93	144238	142898.2	253.05
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
51	20	rnd	147668	146305.17	685.75	147594	146712.1	467.46	147284	144583.27	1031.53	146612	143206.9	805.64
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	147607	146807.7	367.61	147880	147332.7	355.55	146646	145658.03	701.19	145639	143967.7	852.92
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0

Table A.721: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147110	144381.1	1027.64	144083	143063.13	439.49	142852	142852	0	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	145763	143727.77	872.53	145139	143168.13	589.67	142852	142852	0	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
51	20	rnd	147259	145583	1170.25	147131	145311.87	1194.84	144275	142903.03	259.87	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	147002	145228.73	1002.84	146901	145044.9	1028.78	144865	143284.43	622.13	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0

Table A.722: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147374	146051.6	690.84	147319	145212.87	844.59	144637	143180.63	548.61	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	147525	146537.6	623.77	147527	146254.23	605.13	146813	144374.87	1116.79	142951	142855.3	18.07
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
51	20	rnd	147304	146273.57	629.3	147436	146482.93	518.06	146603	144595.1	1065.66	145023	143242.13	684.64
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	147374	146472.27	501.58	147918	147195.67	463.72	146540	145604.93	523.65	146177	144330.9	1014.6
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0

Table A.723: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147466	145694.23	1032.82	147317	145555.03	1032.92	142852	142852	0	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	146725	145019.43	1022.25	146665	144920.23	956.43	142852	142852	0	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
51	20	rnd	149003	147485.6	807.07	148985	147481.67	805.91	147915	145819.97	1265.53	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	148039	147039.3	783.64	148039	147023	787.29	147230	145661.4	923.73	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0

Table A.724: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147466	146718.07	496.1	147422	146334.83	716.4	146104	144157.63	1036.82	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	147661	146970.77	453.52	147633	146724.73	493.63	146714	145043.83	886.39	142852	142852	0
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
51	20	rnd	147390	146926.93	311.03	147646	146905.5	312.28	147032	145701.57	943.64	143367	142869.17	94.03
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0
	50	rnd	147566	147168.07	221.95	147524	146972.07	273.2	147151	146230.23	613.14	145345	143285.93	779.82
		2op	150949	150949	0	150949	150949	0	150949	150949	0	150949	150949	0

Table A.725: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	161887	160419.63	874.61	159583	157228.13	1278.78	154518	154518	0	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	162414	160374.83	956.84	161393	159155.3	914.43	154518	154518	0	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
51	20	rnd	162349	160742.3	979.39	162238	160232.5	1066.34	157539	155356.6	1151.88	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	163156	161224.17	852.64	163071	160990.6	874.96	160094	158144.27	1333.37	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0

Table A.726: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	161050	159969.07	759.45	160338	158844.73	825.82	159183	156728.73	1555.96	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	161328	160027.97	585.44	161808	160440.4	663.49	160243	157628.53	1293.83	157316	154822.43	705.74
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
51	20	rnd	161461	160220.07	792.49	161515	160447.23	565.45	160163	157915.87	1203.29	158041	155473.77	1126.74
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	160982	160010.37	576.6	161913	161175	484.73	160729	158802.67	1078.44	159797	157561.83	1469.64
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0

Table A.727: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	161450	160171.5	921.5	159315	156786.33	1497.17	154518	154518	0	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	161423	160221.6	976.78	160703	158762.23	1137.55	154518	154518	0	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
51	20	rnd	162374	161160.43	873.65	162124	160657.73	896.15	158167	155125.67	1018.83	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	163206	161279.83	968.69	163080	161066.83	975.21	160322	157975.87	1418.7	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0

Table A.728: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	161156	159572.1	813.55	160811	158469.2	1162.99	158918	155753.33	1112.39	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	161054	159941.47	716.48	161207	160180.03	656.22	159663	157475.13	1219.2	155423	154581.5	181.54
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
51	20	rnd	161339	159971.13	593.82	161348	160396.2	519.38	159513	157889.07	1263.35	158709	155887.33	1338.35
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	160923	160172.93	524.21	161769	161185.7	333.16	160620	158809.3	986.28	159825	157280.27	1284.85
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0

Table A.729: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162367	160860.9	807.83	161797	160622.27	776.28	158549	154699.97	756.91	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	162939	160881.2	845.83	162876	160780.03	838.34	158531	154797.2	818.68	154518	154518	0
	2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0	
51	20	rnd	163447	162413.7	681.24	163446	162411.93	683.36	161622	160529.9	677.81	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	163648	162226.37	653.87	163648	162225.53	653.33	162363	160832.87	764.74	154518	154518	0
	2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0	

Table A.730: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	161068	160379.1	441.31	160914	159998.2	641.78	159883	158048.73	1193.72	154518	154518	0
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	161240	160556.27	466.9	161166	160217.87	578.78	160280	158757	1114.58	156606	154587.6	381.21
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
51	20	rnd	161258	160493.5	498.2	161227	160419.37	504.9	160730	159757.67	607.15	157526	154627.53	549.78
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0
	50	rnd	161394	160757.1	385.04	161340	160617.87	410.44	160711	159878.03	557.35	159290	156504.13	1617.73
		2op	166172	166172	0	166172	166172	0	166172	166172	0	166172	166172	0

Table A.731: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	158651	157695.47	417.23	156619	155118.13	895.07	147200	147200	0	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	158649	157713.93	542.6	157492	156261.2	731.62	151695	148107.1	1171.09	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
51	20	rnd	159003	157978.63	508.07	158380	157457.73	507.56	154893	152678.3	1513.21	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	159136	158008.2	498.91	158719	157661.33	534.94	157374	155091.27	1149.44	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0

Table A.732: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	153055	152448.23	494.12	154247	152273.93	732.51	152297	149032.07	1496.47	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	153342	152584.9	554.13	154075	153482.3	427.17	152362	150607	1008.83	150810	147973.9	990.6
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
51	20	rnd	153212	152443.9	531.66	154378	153457.8	566.54	152444	150769.67	1042.89	150423	148542.7	1124.5
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	153337	152575.47	420.26	154198	153814.23	207.9	153312	152092.13	635.42	152190	150690.43	1012.25
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0

Table A.733: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	158650	157525.5	556.75	157052	154595.23	908.48	147200	147200	0	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	158527	157742.27	510.09	157050	156218.97	601.33	151294	148099.27	1171.22	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
51	20	rnd	158837	158027.8	444.97	158393	157376.9	512.22	154906	152319.63	1534.7	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	158806	157996.03	541.14	158535	157675.33	542.48	157042	155067.7	946.91	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0

Table A.734: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	153144	152353.33	641.41	153828	152173.67	945.34	151097	148653.13	1326.01	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	153433	152557.97	413.99	154068	153362.73	458.35	151784	150197.47	1239.39	148632	147376.07	384.82
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
51	20	rnd	153407	152451.67	545.49	154307	153614.57	360.72	152763	150736.33	1292.97	151370	148460.23	1131.87
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	153327	152559.3	377.06	154308	153992	189.23	153044	151929.33	563.45	152345	150697.6	959.09
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0

Table A.735: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	158538	157858.23	456.79	158508	157698.53	496.53	153790	151139.53	1945.98	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	158322	157637.6	562.01	158250	157521	554.21	155310	150629.97	2329.5	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
51	20	rnd	158819	158195.07	399.01	158819	158195.07	399.01	157346	156142.07	563.74	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	158704	158133.03	362.66	158704	158133.03	362.66	157334	156437.5	504.01	147562	147217.5	71.54
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0

Table A.736: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	153413	152592.83	436.19	153263	152368	480.75	152207	150765.83	987.42	147200	147200	0
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	153360	152774.47	388.43	153268	152588.7	415.48	152362	151521.37	594.14	149208	147536.97	616.3
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
51	20	rnd	153421	152955.4	310.29	153289	152901.3	303.54	153020	152424.07	387.18	150492	147526.67	895.7
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0
	50	rnd	153380	152981.5	258.83	153349	152923.23	264.01	153139	152530.27	335.32	151489	149559.77	1450.12
		2op	162329	162329	0	162329	162329	0	162329	162329	0	162329	162329	0

Table A.737: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	174766	174390.3	312.74	173211	171774.43	913.35	162331	162331	0	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	175018	174570.5	304.31	173663	173043.83	446.99	168236	163659.77	1723.18	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
51	20	rnd	174855	174374.33	289.58	174282	173868.67	308.86	172433	168898.33	1796.16	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	175032	174527	376.62	174615	173998.67	381.86	172661	171605.07	728.2	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0

Table A.738: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166952	166141.43	782.72	167655	166098.13	831.51	165364	162884.03	823.57	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	166817	166466.43	371.94	168181	167526.53	344.15	166350	164292.87	1229.57	164684	162437.8	436.25
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
51	20	rnd	166791	166172.57	707.53	168501	167737.33	473.82	166758	164460.17	1289.16	165912	162866.27	972.53
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	166755	166477.8	159.26	168702	167793.93	306.78	166944	166085.07	428.83	166106	164487.67	1115.14
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0

Table A.739: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	174873	174314.77	388.49	173243	171302.2	1206.79	162331	162331	0	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	174999	174556.2	298.89	173700	173079.2	455.67	168767	163911.03	1906.36	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
51	20	rnd	174893	174491.33	224.98	174517	173974.17	319.09	172170	169592.47	1472.49	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	174829	174487.1	306.2	174584	174005.87	317.76	172809	171572.43	865.13	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0

Table A.740: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166885	166098.17	590.53	167565	166460.77	832.53	165109	163038.23	900.59	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	166790	166443.33	299.06	167904	167257	370.65	166217	164186.13	1261.69	164678	162634.6	666.08
51	20	rnd	166824	166090.6	690.68	168675	167456.77	581.25	166377	164860.33	1071.96	164703	162800.13	706.57
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	166774	166377.87	410.78	168562	167866.63	318.56	166681	165912.77	517.88	165944	164288.67	1261.52
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0

Table A.741: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	174466	174115.67	258.01	174431	174054.4	270.34	169375	167017.23	1706.28	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	174647	174317.27	264.14	174645	174243.87	294.26	170689	167793.73	2523.99	162331	162331	0
51	20	rnd	174461	174057	256.69	174461	174057	256.69	172419	171845.43	427.65	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	174160	173847.63	319.46	174160	173847.63	319.46	172737	171991.73	426.79	164745	162470.73	538.29
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0

Table A.742: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166932	166349.23	504.66	166831	166134.83	576.57	166221	164590.03	802.62	162331	162331	0
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	166811	166612.7	104.85	166753	166398.9	291.66	166208	165122.37	848.36	162745	162344.8	75.59
51	20	rnd	166833	166506.27	291.92	166833	166492.27	290.92	166407	165841.17	474.91	163668	162387.3	250.27
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0
	50	rnd	166754	166502.87	221.15	166817	166476.8	249.72	166408	166221.17	204.79	165592	163598.93	1226.93
		2op	179373	179373	0	179373	179373	0	179373	179373	0	179373	179373	0

Table A.743: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	329514	325175.53	2237.16	321190	321190	0	321190	321190	0	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	330728	326317.83	2128.39	327467	321563.83	1231.42	321190	321190	0	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
51	20	rnd	329991	326955.1	1470.57	329151	324984.77	1990.85	321190	321190	0	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	330098	327683.6	1707.05	329569	326823	1597.32	321190	321190	0	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0

Table A.744: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	330961	328746.3	1148.33	328811	326017.03	1470.27	325524	322166.33	1420.65	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	331115	329610.2	737.66	329473	326586.43	1644.02	328446	324382.17	1998.38	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
51	20	rnd	330369	328778.33	1111.44	329662	327013.3	1436.7	328888	325121.83	1688.65	321653	321220.37	115.58
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	331070	329882.57	957.83	331658	329623.4	1096.07	330288	327102.43	1967.9	329385	323557	2459.35
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0

Table A.745: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	329842	324391.17	2074.63	321190	321190	0	321190	321190	0	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	329239	325079.5	1626.9	322700	321269.3	312.92	321190	321190	0	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
51	20	rnd	330346	327130.77	1504.34	327794	325475.13	1648.29	321190	321190	0	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	330193	327411.73	1423.9	329894	326329.9	1825.95	321190	321190	0	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0

Table A.746: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	331505	328787.17	1154.26	329269	325460.27	1641.01	326608	321686.67	1107.6	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	331922	329501.57	1039.22	329769	326710.43	1634.91	327726	324379	1512.38	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
51	20	rnd	331324	329022.9	992.17	330458	327638.13	1597.6	328066	325251.3	1895.31	324946	321478.37	891.94
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	331604	330048.83	893.78	331143	329598.8	920.16	329987	327117.77	1310.22	328507	323556.6	1922.34
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0

Table A.747: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	329572	326361.47	1757.88	329533	326360.17	1755.43	321190	321190	0	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	329483	326382.83	1407.27	329483	326379.93	1413.32	321190	321190	0	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
51	20	rnd	330790	328474.73	1728.18	330790	328474.73	1728.18	326411	322738	1627.23	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	331406	328024.8	1886.31	331406	328024.8	1886.31	328595	324644.1	2050.57	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0

Table A.748: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	331533	329160.3	1098.06	330771	328595.9	1141.31	326519	323063.5	1419.57	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	331486	330087.53	870.67	331081	329373.6	1030.67	328950	325783.37	1760.35	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
51	20	rnd	331237	330076.8	774.86	331224	329898.43	963.98	331032	328350.8	1352.3	321190	321190	0
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0
	50	rnd	331500	330393.17	597.41	331455	330208.23	626.62	330490	328989.5	852.08	324235	321432.7	723.67
		2op	342134	342134	0	342134	342134	0	342134	342134	0	342134	342134	0

Table A.749: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	180129	174775.17	2603.54	171884	165190	3856.53	136972	127859.17	4398.63	84501	71974.33	7562.37
		2op	224309	224309	0	224309	224309	0	224309	224309	0	224309	224309	0
	50	rnd	179468	175262.6	2581.52	174310	170020.53	2743.34	154974	143224.7	5265.89	98631	88538.6	5591.35
		2op	224309	224309	0	224309	224309	0	224309	224309	0	224309	224309	0
51	20	rnd	180438	175321.63	2597.49	178905	173561.57	2789.45	165473	157832.47	4122.42	125408	109581.8	7072.22
		2op	224309	224309	0	224309	224309	0	224309	224309	0	224309	224309	0
	50	rnd	177818	173642.93	2811.84	177378	172516.47	2877.65	170135	164561.7	3732.77	137843	127637.73	4899.05
		2op	224309	224309	0	224309	224309	0	224309	224309	0	224309	224309	0

Table A.750: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	28971	26132.4	1554.73	66954	60462.17	2998.52	53089	46252.9	3109.91	38777	33472.9	3648.64
		2op	225113	224453.53	213.54	224636	224335.1	78.03	224309	224309	0	224309	224309	0
	50	rnd	29677	26567.7	1502.43	70076	65577.67	2739.55	57195	51932.23	3306.48	48453	36348.83	5649.41
		2op	225191	224627.57	302.08	225100	224483.23	246.44	224309	224309	0	224309	224309	0
51	20	rnd	30092	27263.43	1733.27	46469	42147.4	1870.54	61552	54076.27	2970.06	48575	39385.8	4952.66
		2op	225257	224610.77	279.86	225235	224773.7	300.36	224578	224335.8	67.52	224309	224309	0
	50	rnd	31036	26975.2	1453.86	45074	42221.03	2088.59	64892	58274.53	2659.4	53518	40197.97	4783.27
		2op	225004	224524.83	200.77	225263	225001.57	224.64	224824	224356.2	114.06	224309	224309	0

Table A.751: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	180316	174963.3	2587.93	172276	164734.17	3438.75	136714	127073.8	5319.35	80927	70251.87	6430.95
		2op	224309	224309	0	224309	224309	0	224309	224309	0	224309	224309	0
	50	rnd	180231	174371.6	2750.34	174954	169418.9	3392.56	150379	142154.17	4746.93	100311	91207.03	5851.97
		2op	224309	224309	0	224309	224309	0	224309	224309	0	224309	224309	0
51	20	rnd	180145	174133.97	2558.52	179295	172102.07	3196.22	165460	157038.43	4124.6	122449	108337.77	7580.64
		2op	224309	224309	0	224309	224309	0	224309	224309	0	224309	224309	0
	50	rnd	180251	174992.1	2977.12	178846	173971	2880.75	170247	164998.03	2885.43	141668	128001.1	6736.26
		2op	224309	224309	0	224309	224309	0	224309	224309	0	224309	224309	0

Table A.752: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	28971	26533.23	1396.65	63635	59771.6	2216.74	54775	45199.17	3645.35	37650	32181.47	3059.34
		2op	225222	224536.5	254.67	224603	224362.67	95.69	224309	224309	0	224309	224309	0
	50	rnd	29201	26743.03	1080.22	68564	64715.47	2055.69	57580	51146.93	3570.71	41867	35942.37	4182.58
51	20	rnd	225040	224560.43	232.1	225006	224466.77	213.12	224491	224315.07	33.23	224309	224309	0
		2op	31150	26894.07	1228.62	45748	42775.57	1650.6	58737	54660.3	2168.6	48660	39350.9	5150.42
	50	rnd	225060	224509.13	221.79	225257	224691.6	295.46	224349	224311.47	8.44	224309	224309	0
	20	rnd	29699	26825.5	1449.18	46415	42488.1	1754.67	62991	57421.8	2203.67	52765	42707.27	6510.16
		2op	225257	224595.37	266.95	225260	224943.97	274.72	224592	224357.4	89.84	224309	224309	0

Table A.753: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	181409	173935.77	2837.45	181014	173273.57	3124.07	142836	131938.6	6209.81	74111	64218.9	5312.53
		2op	224309	224309	0	224309	224309	0	224309	224309	0	224309	224309	0
	50	rnd	181196	174937.83	2697.78	181196	174460.33	2871.01	150587	138711.77	8263.53	90909	84449.47	4161.65
51	20	rnd	224309	224309	0	224309	224309	0	224309	224309	0	224309	224309	0
		2op	182436	175882.13	2841.27	182407	175877.57	2840.96	168326	162658.83	3369.06	109960	95142.6	9270.67
	50	rnd	225230	224473.07	293.98	225230	224473.07	293.98	224309	224309	0	224309	224309	0
	20	rnd	183586	178516.67	2367.61	183586	178488.5	2373.16	175794	166435.07	4926.09	124436	110094.73	12099.91
		2op	225260	224454.5	305.19	225260	224454.5	305.19	224309	224309	0	224309	224309	0

Table A.754: *bx842596_4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	30735	27824.2	1081.44	44859	41653.47	1615.24	43838	41917.83	1676.53	27205	24072.33	1344.62
		2op	225239	224664.5	248.28	225235	224515.43	221.49	224309	224309	0	224309	224309	0
	50	rnd	31393	28482.73	1090.33	50306	44998.5	2124.96	53378	49331.63	2157.16	31369	28256.13	2093.11
51	20	rnd	225257	224671	244.89	225257	224615.1	243.87	224309	224309	0	224309	224309	0
		2op	30227	28550.6	944.31	33584	29850.93	1588.47	55359	50664.57	1717.9	36645	32303.03	2530.47
	50	rnd	225223	224771.6	203.37	225112	224763.17	207.77	224675	224362.23	110.29	224309	224309	0
	20	rnd	30998	28714.53	882.45	35803	32118.7	1684.55	59543	55412.07	2313.15	37826	33294.47	3169.64
		2op	225257	224828.97	204.82	225226	224712.7	219.44	224610	224338.47	70.02	224309	224309	0

Table A.755: *bx842596_4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342618	334220.23	3853.83	318532	305746.3	7463.74	247191	223169.63	9908.39	138070	118563.6	9362.43
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	342958	336362.5	4230.1	331934	321376.7	5162.68	272182	257057.3	7837.88	177226	156656.8	12676.84
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
51	20	rnd	342206	334492.57	3666.96	340384	330824.8	4104.16	301015	284775.9	7663.73	208395	189460.23	13347.82
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	343012	335226.87	4358.04	340084	331703.53	4316	316397	305368.17	5472.08	238127	224132.23	8122.78
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0

Table A.756: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47333	43616.63	1934.1	101536	94417.03	4281.47	85200	69096.53	7750.08	66141	49591.93	10212.65
		2op	437809	437537.37	143.04	437537	437413.9	41.87	437398	437398	0	437398	437398	0
	50	rnd	47418	43853.93	1928.75	112473	102864.17	3816.95	88697	76196.3	7185.04	73132	60833.77	9739.81
		2op	437939	437544.03	154.26	437713	437431.3	84.63	437398	437398	0	437398	437398	0
51	20	rnd	48331	44610.93	1643.57	69852	65179.8	2233.75	96152	84895.87	6010.41	78951	61923.73	8650.39
		2op	437794	437530.2	147.01	437810	437451.83	107.49	437403	437398.17	0.91	437398	437398	0
	50	rnd	46919	44367.67	1382.53	68358	64518.17	2312.7	100111	89906.33	5664.07	83208	63896.87	10189.37
		2op	437908	437602	141.05	437868	437574.4	147.92	437548	437403.7	27.52	437398	437398	0

Table A.757: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342807	334538.33	3733.63	321737	307129	7410.58	253111	226338.83	9701.13	137913	120855.03	8407.45
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	344473	335355.43	4530.88	328879	319775.4	5657.38	269724	252368.97	7956.76	168018	155007.43	8906.43
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
51	20	rnd	339600	334079.37	2811.84	334589	328700.23	3419.42	304411	287196.97	8336.97	206311	190464.6	10422.94
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	341336	335210.1	3611.49	338498	331584.43	3458.52	319432	307184.5	5992.37	240668	226002.9	10517.91
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0

Table A.758: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47324	43731.63	1584.12	100305	92848.73	4101.96	86768	73219.53	8568.47	65470	47325.27	10600.07
		2op	437852	437568.37	134.86	437570	437405.87	33.13	437398	437398	0	437398	437398	0
		50	rnd	48655	43784.87	2127.35	109598	101849.33	3789.4	88872	77842.87	75887	57285.9	11228.31
51	20	rnd	437826	437589.53	135.26	437471	437409.93	24.87	437398	437398	0	437398	437398	0
		2op	46726	44476.6	1374.2	68018	64299.1	2262.94	95725	84611.97	4832.84	74938	62823.77	8210.51
		50	rnd	437897	437524.87	153.48	437856	437449.37	106.29	437668	437407	49.3	437398	437398
	50	rnd	46993	43999.77	1702.19	66846	63964.13	1514.37	99029	87650.8	5486.21	89618	65365.03	10720.31
		2op	437864	437569.67	126.99	437835	437470.7	124.74	437428	437399	5.48	437398	437398	0

Table A.759: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	338100	329591.4	3779.76	338100	329428.07	3902.54	253494	233698.1	11189.06	123254	106012.57	8080.31
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
		50	rnd	338708	331901.97	2854.31	338708	331706.27	2987.01	264846	244929.3	15120.16	157937	146326.53
51	20	rnd	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
		2op	336468	328685.1	3746.65	336468	328685.1	3746.65	308779	295192.1	8398.23	190333	156014.67	21879.12
		50	rnd	437605	437413.37	48.87	437594	437413	47.41	437398	437398	0	437398	437398
	50	rnd	336991	330584.97	3975.73	336991	330584.97	3975.73	318121	306592.1	7244.03	222252	176717.03	23981.78
		2op	438180	437444.4	159.13	438180	437442.6	156.58	437398	437398	0	437398	437398	0

Table A.760: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	51328	46253.73	1537.21	66139	61726.23	3198.68	67486	63613.63	2782.22	38681	36360.6	1189.47
		2op	437901	437609.33	131.18	437758	437508.27	116.61	437398	437398	0	437398	437398	0
		50	rnd	47995	46586.63	1193.47	73138	66998.77	3212.01	79298	75071.77	2017.53	45080	40510.6
51	20	rnd	437859	437670.33	108.41	437789	437557	108.99	437398	437398	0	437398	437398	0
		2op	50672	47000	1438.49	50672	47089.43	1411.58	85557	77988.57	2724.46	49584	45114.73	2527.76
		50	rnd	438022	437648.13	135.58	437829	437614.87	131.61	437398	437398	0	437398	437398
	50	rnd	49073	47004.73	1138.98	51997	48284.6	1593.36	91600	84536.23	3163.82	52237	46596.73	3529.72
		2op	437947	437685.97	113.49	437937	437608.8	131.7	437521	437403.6	23.64	437398	437398	0

Table A.761: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	92248	89672.77	1396.27	88900	86082.23	1722.94	73840	69529.13	2288.52	49825	40911.23	3331.28
		2op	114835	114818.57	3.1	114818	114818	0	114818	114818	0	114818	114818	0
	50	rnd	92087	89378.7	1435.97	89962	87298.6	1669.67	82059	77085.7	2076.88	55594	51268.27	2762.89
		2op	114818	114818	0	114818	114818	0	114818	114818	0	114818	114818	0
51	20	rnd	93314	89922.33	1671.32	92707	89240.03	1794.9	86940	82502.6	2538.72	66865	60768.57	3539.13
		2op	114926	114821.73	19.71	114854	114819.2	6.57	114818	114818	0	114818	114818	0
	50	rnd	92370	89138.5	1473.31	91970	88459.33	1432.92	87956	85062.9	1424.77	74478	69736.83	2964.81
		2op	114827	114818.3	1.64	114818	114818	0	114818	114818	0	114818	114818	0

Table A.762: $j02459_7$: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22540	20583.7	975.74	42815	39903.63	1592.02	36698	32091.27	2869.77	28465	23914.17	2168.47
		2op	115182	114940.8	113.82	115049	114881.1	76.67	114818	114818	0	114818	114818	0
	50	rnd	22182	20700.73	887.12	46668	43680.9	1669.14	38481	34848.03	2370.33	30737	25382.47	3101.36
		2op	115221	114958.2	134.4	115194	115071.1	66.84	115072	114831.27	48.14	114818	114818	0
51	20	rnd	22707	20811.43	1004.8	35562	32004.93	1616.15	42675	37298.87	2239.69	32584	27530.33	3088.88
		2op	115157	114977.27	106.97	115317	115182.07	71.44	115032	114869.8	63.66	114818	114818	0
	50	rnd	22290	20767.6	891.24	34697	31209.77	1211.33	43576	39513.87	2172.68	35788	28245.6	3837.11
		2op	115175	114954.53	116.63	115344	115259.23	57.54	115096	114890.63	91.33	114818	114818	0

Table A.763: $j02459_7$: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	93014	90086.73	1576.94	90182	86285.9	1981.96	74564	69447.43	3601.51	48599	42090.13	3405.37
		2op	114818	114818	0	114818	114818	0	114818	114818	0	114818	114818	0
	50	rnd	91877	89930.2	1254.94	90272	87598.13	1492.27	80831	76760.8	2172.67	56740	51064.83	2780.82
		2op	114818	114818	0	114818	114818	0	114818	114818	0	114818	114818	0
51	20	rnd	91632	89469.7	1388.88	91207	88776.77	1552.05	87519	82062.37	2614.91	67963	61441.83	3358.85
		2op	114818	114818	0	114818	114818	0	114818	114818	0	114818	114818	0
	50	rnd	91801	89313.93	1208.32	91682	88723.83	1345.7	88911	85518.03	1537.44	73413	69078.1	3047.24
		2op	114884	114820.2	12.05	114818	114818	0	114818	114818	0	114818	114818	0

Table A.764: $j02459_7$: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22241	20455.77	816.86	43399	40398.37	1837.71	37691	32719.1	2674.4	28396	24362.33	1948.44
		2op	115121	114927.5	124.67	115079	114892.03	107.09	114822	114818.13	0.73	114818	114818	0
	50	rnd	22546	20589.2	906.21	46526	43160.13	1907.02	37597	33612.47	2338.49	30548	26769.7	2375.77
51	20	rnd	115120	114931.93	91.68	115203	115035.33	120.03	114860	114820.27	8.61	114818	114818	0
		2op	22265	20593.53	801.47	35256	32484.9	1501.23	40838	37183.7	2177.95	33623	26051.77	3953.67
	50	rnd	115257	114962.5	123.3	115326	115179.17	61.02	115091	114875.63	92.41	114818	114818	0
	20	rnd	21880	20704.77	772.62	34851	31443.07	1478.1	43729	39530.7	1834.03	36516	27728.97	4546.46
		2op	115140	114917.67	91.09	115367	115271.4	55.31	115070	114855.43	77.47	114818	114818	0

Table A.765: $j02459_7$: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	92108	89454.63	1411.95	91657	89005.67	1438.07	75638	70665.77	3930.71	42971	39081.7	1958.81
		2op	115206	114907.57	141.82	115206	114895.63	130.02	114818	114818	0	114818	114818	0
	50	rnd	93688	89979.43	1665.72	92924	89759.67	1604.03	80584	75012.2	3223.81	52111	47661.1	2426.9
51	20	rnd	115111	114839.4	71.02	115111	114835.33	63.93	114818	114818	0	114818	114818	0
		2op	93133	90222.63	1439.71	93062	90194.2	1436.83	87374	84663.27	1700.71	58911	52801.77	4398.8
	50	rnd	115245	115094.33	101.7	115245	115087.07	112.38	114818	114818	0	114818	114818	0
	20	rnd	94820	91693.3	1680.44	94820	91603.63	1720.7	90760	87140.2	2037.25	69776	63294.9	6018.65
		2op	115305	115169.93	90.72	115305	115164.53	91.56	114818	114818	0	114818	114818	0

Table A.766: $j02459_7$: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	23514	21774.57	618.82	33568	31142.57	1025.77	31192	28412.9	1240.24	19040	17785.53	713.1
		2op	115175	115006.13	122.44	115159	114981.17	118.68	114818	114818	0	114818	114818	0
	50	rnd	23492	21932.63	614.98	35945	33203.43	1488.52	34979	32487.1	1254.86	22190	19493.57	1116.73
51	20	rnd	115180	115020.6	115.22	115164	114996.37	111.51	114866	114820.9	11.1	114818	114818	0
		2op	23798	22179.93	738.31	25253	23411.23	920.38	36405	34334.17	1127.6	23669	22057.3	1280.4
	50	rnd	115267	115095.3	92.51	115202	115098.97	78.73	115071	114898.5	72.49	114818	114818	0
	20	rnd	23548	22111.27	755.42	26473	24476.5	822.99	39592	37455.1	1095.38	25397	22777.23	1570.68
		2op	115265	115104	81.42	115204	115054.9	70.17	115052	114875.27	75.83	114818	114818	0

Table A.767: $j02459_7$: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	33263	32098.63	835.49	33344	31249.4	975.02	30889	27612.93	1506.73	21170	19009.73	1371.27
		2op	38405	38232.27	34.84	38368	38228.8	26.29	38224	38224	0	38224	38224	0
	50	rnd	34213	33229.67	601.61	34772	33104.27	692.4	31407	29722.17	1067.37	25166	22479.07	1538.81
51	20	rnd	38355	38233.17	32.17	38270	38226.8	10.71	38224	38224	0	38224	38224	0
		2op	33208	32134.93	672.42	36012	34728.7	592.01	31675	30154.67	871.18	28040	25716.73	1263.4
	50	rnd	38429	38263.37	69.69	38434	38299.93	76.44	38354	38228.33	23.73	38224	38224	0
	20	rnd	34559	33461.4	511.76	36577	35473.8	408.48	34373	31512.2	1045.92	30229	28190.3	1280.25
		2op	38430	38289.73	75.9	38420	38302.5	73.4	38347	38228.93	22.76	38224	38224	0

Table A.768: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12636	11124.7	646.67	24273	21591.97	927.31	19754	17905.1	850.76	16496	14197.43	995.65
		2op	38414	38354.33	71.85	38434	38405.77	8.68	38366	38255.5	48.74	38224	38224	0
	50	rnd	12711	11144.13	726.38	25837	23412.73	940.53	21751	19391.33	928.4	16469	15079.7	876.9
51	20	rnd	38409	38378.8	50.69	38439	38421.67	13.44	38397	38338.3	39.67	38224	38224	0
		2op	12621	11220.67	590.3	21311	18965.63	1150.87	22281	20741.07	776.06	18724	16439.2	1230.43
	50	rnd	38414	38367.8	64.48	38439	38421.8	12.82	38409	38385.87	18.79	38304	38232.13	21.18
	20	rnd	12541	11329.07	636.04	21821	18552.57	1167.82	22878	21551.37	884.63	18419	16427.3	1097.14
		2op	38409	38371.83	54.27	38439	38428.27	12.78	38434	38399.57	11.08	38364	38264.2	42.86

Table A.769: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	33010	31949.3	560.09	34127	31312.07	1033.97	29237	27433.33	944.77	22898	19524.3	1726.83
		2op	38224	38224	0	38224	38224	0	38224	38224	0	38224	38224	0
	50	rnd	34581	33025.7	634.75	33823	32515.4	558.21	31902	29872.7	977.96	24702	22349.23	1381.97
51	20	rnd	38224	38224	0	38234	38224.33	1.83	38224	38224	0	38224	38224	0
		2op	33823	32069.83	766.54	35688	34880.2	555.29	32085	30416.63	982.5	28222	25814.77	1122.16
	50	rnd	38412	38279.87	66.01	38395	38283.13	58.79	38349	38228.17	22.82	38224	38224	0
	20	rnd	34825	33463.23	713.93	36110	35330.63	530.55	32303	31074.27	719.49	29435	27774.6	812.04
		2op	38434	38270.67	71.8	38425	38325.13	64.13	38286	38230.63	17.73	38224	38224	0

Table A.770: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12206	10880.87	591.19	23222	21866.7	872.58	19457	17901.37	818.4	15931	14256.53	797.7
		2op	38409	38357.83	70.48	38434	38401.6	15.23	38366	38250.23	49.11	38224	38224	0
	50	rnd	12311	11131.17	645.04	25690	23416.93	1107.52	21314	19619.7	791.27	17009	15253.9	1118.94
51	20	rnd	38409	38361.37	69.7	38439	38417.97	12.06	38397	38327.53	42.22	38224	38224	0
		2op	12505	11171.17	775.28	21069	19033.97	1238.17	22847	20802.93	938.14	18509	16631.47	966.8
	50	rnd	38409	38363.97	65.07	38439	38418.8	11.94	38412	38382.73	14.57	38309	38233	22.83
	20	rnd	12551	11273.77	717.49	22848	18654.67	1338.66	23387	21886.33	936.28	18806	16561.77	1136.7
		2op	38414	38366.33	64.76	38439	38426.23	11.52	38431	38398.87	16.39	38384	38255.23	45.07
	50	rnd	38414	38366.33	64.76	38439	38426.23	11.52	38431	38398.87	16.39	38384	38255.23	45.07

Table A.771: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	34012	32407.17	787.93	34238	32049.37	913.31	30284	28519.83	1020.75	19774	16962.3	1190.07
		2op	38427	38336.87	70.69	38427	38330.57	69.73	38224	38224	0	38224	38224	0
	50	rnd	34713	33455.77	663.36	35280	32980.63	980.97	31844	29749.9	980.52	22992	20961.83	1103.68
51	20	rnd	38434	38324.53	76.02	38434	38319.6	79.38	38224	38224	0	38224	38224	0
		2op	34689	33254.73	767.72	36405	34895	644.39	33691	31903	720.92	25974	24169.07	924.6
	50	rnd	38434	38411.57	13.17	38439	38433.3	6.72	38409	38297.7	68	38224	38224	0
	20	rnd	35238	33893.87	506.58	35700	34721.43	567.36	33488	31800.27	746.13	28535	26656.63	1107.22
		2op	38439	38421.43	13.1	38439	38424.3	12.3	38409	38279.03	66.54	38224	38224	0
	50	rnd	38439	38421.43	13.1	38439	38424.3	12.3	38409	38279.03	66.54	38224	38224	0

Table A.772: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13342	11873.27	513.53	18721	17515.93	608.19	17478	16225.7	696.16	12506	11872.1	426.02
		2op	38409	38401.5	9.24	38409	38399.97	9.39	38353	38251.37	38.16	38224	38224	0
	50	rnd	13043	11936.77	558.73	19060	17998.53	428.75	19553	18276.43	571.78	14151	13082.43	668.09
51	20	rnd	38409	38403.8	7.36	38409	38402.3	9.29	38396	38287.67	62.1	38224	38224	0
		2op	13591	12217.23	519.29	15044	14133.97	428.34	19988	18907.93	661.14	16828	14182.3	743.96
	50	rnd	38434	38406.9	9.44	38434	38407.2	9.09	38406	38350.53	41.59	38224	38224	0
	20	rnd	13016	12139.37	473.68	15140	14288.8	460.59	21158	19706.87	802.32	16094	14240.7	885.87
		2op	38429	38407.9	4.53	38409	38401.93	5.16	38407	38357.6	49.08	38292	38230.8	18.61
	50	rnd	38429	38407.9	4.53	38409	38401.93	5.16	38407	38357.6	49.08	38292	38230.8	18.61

Table A.773: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38967	37407.7	749.63	38357	36415.6	926.87	33954	31864.33	1216.86	25108	21066.77	1780.94
		2op	47173	47173	0	47173	47173	0	47173	47173	0	47173	47173	0
	50	rnd	39475	37895.63	778.85	38308	36554.57	816.51	35567	33735.23	1063.28	27447	24664.2	1438.75
51	20	rnd	47341	47179.77	31.11	47173	47173	0	47173	47173	0	47173	47173	0
		2op	47341	47179.77	31.11	47173	47173	0	47173	47173	0	47173	47173	0
	50	rnd	39660	37399.23	833.54	40842	39088.63	824.82	37078	35540.03	983.86	30479	28413.07	1411.12
	20	rnd	47394	47228.57	77.26	47394	47219.73	68.95	47173	47173	0	47173	47173	0
		2op	47394	47228.57	77.26	47394	47219.73	68.95	47173	47173	0	47173	47173	0
	50	rnd	40098	38231.1	728.32	42137	40804.97	652.61	37284	35973.2	814.52	33901	31517.5	1145.75
	20	rnd	47387	47192.33	52.63	47383	47244.93	79.17	47173	47173	0	47173	47173	0
		2op	47387	47192.33	52.63	47383	47244.93	79.17	47173	47173	0	47173	47173	0
	50	rnd	40098	38231.1	728.32	42137	40804.97	652.61	37284	35973.2	814.52	33901	31517.5	1145.75
	20	rnd	47387	47192.33	52.63	47383	47244.93	79.17	47173	47173	0	47173	47173	0
		2op	47387	47192.33	52.63	47383	47244.93	79.17	47173	47173	0	47173	47173	0
	50	rnd	40098	38231.1	728.32	42137	40804.97	652.61	37284	35973.2	814.52	33901	31517.5	1145.75

Table A.774: $m15421_6$: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12134	11298.33	557.04	24460	22396.6	1086.11	20770	18031.2	1317.19	15182	13322.87	739.58
		2op	47386	47228.33	55.83	47391	47372.73	12.64	47173	47173	0	47173	47173	0
	50	rnd	12841	11472	652.49	25677	23964.57	967.78	22044	19652.67	1420.55	16763	14241.13	1273.69
51	20	rnd	47387	47224.6	66.85	47403	47395.7	6.73	47278	47185.53	28.24	47173	47173	0
		2op	47387	47224.6	66.85	47403	47395.7	6.73	47278	47185.53	28.24	47173	47173	0
	50	rnd	13429	11760.77	569.59	21865	19648.8	1116.6	22941	20769.53	1064.85	18622	15566.17	1368.96
	20	rnd	47402	47252.8	67.73	47403	47400.37	4.9	47383	47258.83	70.07	47173	47173	0
		2op	47402	47252.8	67.73	47403	47400.37	4.9	47383	47258.83	70.07	47173	47173	0
	50	rnd	13138	11694.63	571.01	21352	18708.63	1283.25	24062	21985.9	1065.05	19911	16087.57	1480.48
	20	rnd	47323	47215.9	43.55	47403	47402.1	2.89	47394	47344.67	56.29	47173	47173	0
		2op	47323	47215.9	43.55	47403	47402.1	2.89	47394	47344.67	56.29	47173	47173	0
	50	rnd	13138	11694.63	571.01	21352	18708.63	1283.25	24062	21985.9	1065.05	19911	16087.57	1480.48

Table A.775: $m15421_6$: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38666	37117.37	763.12	37433	36112.7	801.11	33759	31880.8	1129.14	24077	20926.4	1832.81
		2op	47173	47173	0	47173	47173	0	47173	47173	0	47173	47173	0
	50	rnd	39147	37904.67	591.86	38065	36795.43	608.94	36817	33978.03	1082.74	28281	24353.27	1482.58
51	20	rnd	47173	47173	0	47173	47173	0	47173	47173	0	47173	47173	0
		2op	47173	47173	0	47173	47173	0	47173	47173	0	47173	47173	0
	50	rnd	38441	36819.47	816.72	40904	38799.73	837.21	37788	35063.1	972.29	30968	28541.93	1500.81
	20	rnd	47378	47198.3	59.46	47378	47200.07	63.03	47173	47173	0	47173	47173	0
		2op	47378	47198.3	59.46	47378	47200.07	63.03	47173	47173	0	47173	47173	0
	50	rnd	39904	38237	842.23	41651	40420.77	630.91	38109	35774.57	1059.7	33529	31131.23	1388.13
	20	rnd	47387	47201.73	64.2	47403	47224.03	74.63	47295	47177.07	22.27	47173	47173	0
		2op	47387	47201.73	64.2	47403	47224.03	74.63	47295	47177.07	22.27	47173	47173	0
	50	rnd	39904	38237	842.23	41651	40420.77	630.91	38109	35774.57	1059.7	33529	31131.23	1388.13

Table A.776: $m15421_6$: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12153	11187.67	602.21	24537	21985.47	1078.21	20210	18027.1	1111.8	16157	13046.13	1070.51
		2op	47402	47225.43	57.23	47402	47359.1	38.81	47173	47173	0	47173	47173	0
	50	rnd	12698	11390.6	462.43	25282	23591.57	1019.37	21906	18765.93	1117.86	17114	14469.5	1258.5
		2op	47401	47227.47	70.08	47402	47394.07	7.03	47315	47182.53	29.37	47173	47173	0
51	20	rnd	13272	11687.03	598.92	22325	19607.6	1090.41	22767	21011.43	946.24	18226	15943.37	1193.8
		2op	47386	47226.93	56.7	47403	47401.53	2.86	47399	47252.83	77.48	47173	47173	0
	50	rnd	12535	11579.13	522.99	20945	18807.57	1205.84	25343	22094.57	1280.12	18734	16282.3	1440.72
		2op	47402	47234.6	69.03	47403	47402.8	0.48	47390	47352.3	46.32	47206	47174.97	7.54

Table A.777: *m15421_6*: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38798	37590.43	682.13	38651	37316.93	705.14	34426	32220.03	1161.36	21266	19015.13	1382.04
		2op	47387	47300.3	90.46	47387	47286.1	93.42	47173	47173	0	47173	47173	0
	50	rnd	39265	38055.5	587.58	39025	37410.43	714.8	35747	33323.03	1162.66	25350	22803.73	1005.98
		2op	47403	47263.07	91.67	47387	47260.37	88.42	47173	47173	0	47173	47173	0
51	20	rnd	39755	38558.43	628.81	41446	40280.47	600.69	38335	37115.53	795.9	28412	26079.03	1014.25
		2op	47403	47368.27	47.78	47403	47397.67	7.67	47333	47190.47	46.72	47173	47173	0
	50	rnd	40120	38895.33	648.12	41491	39709.93	1041.69	37855	36927.9	539.47	31556	29656.53	930.05
		2op	47403	47383.57	32.18	47403	47382.27	41.35	47316	47201.3	43.16	47173	47173	0

Table A.778: *m15421_6*: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13662	12207.07	480.26	18479	17579.73	451.12	17225	16394.93	562.21	12711	11244.67	537.41
		2op	47402	47264.97	65.28	47386	47259.1	59.69	47212	47175	7.97	47173	47173	0
	50	rnd	13325	12277.6	395.71	20933	18629.37	757.21	21605	18534.53	938.69	13100	12197.07	549.65
		2op	47402	47311.27	67.68	47398	47310.3	67.36	47206	47174.1	6.02	47173	47173	0
51	20	rnd	12941	12397.33	383.96	15386	14106.93	445.03	20144	18995.63	565.63	15264	13760.03	818.17
		2op	47402	47320.97	63.67	47402	47373.73	35.07	47360	47220.97	56.17	47173	47173	0
	50	rnd	13175	12440.17	411.38	15251	14337.47	397.22	22986	20362.5	888.52	15369	13901.47	775.51
		2op	47387	47312.07	60.59	47387	47331.63	44.2	47304	47193.93	30.25	47173	47173	0

Table A.779: *m15421_6*: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	45588	43527.07	963.05	44234	42329.87	1085.33	39697	37689.9	1154.5	28489	24580.5	1967.05
		2op	54679	54679	0	54679	54679	0	54679	54679	0	54679	54679	0
	50	rnd	45807	44273.43	818.92	44796	42984.07	983.88	42379	39984.23	1473.44	31751	29050.77	1583.75
		2op	54679	54679	0	54679	54679	0	54679	54679	0	54679	54679	0
51	20	rnd	45588	43520.93	973.87	46548	45379.53	804.48	44755	41512.7	1358.1	36992	33800.87	1527.29
		2op	54679	54679	0	54679	54679	0	54679	54679	0	54679	54679	0
	50	rnd	46632	44801.53	954.05	49174	47256	893.15	44969	42686.4	1111.4	41013	37087.13	1861.08
		2op	54679	54679	0	54679	54679	0	54679	54679	0	54679	54679	0

Table A.780: $m15421_7$: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15329	13732.43	837.49	28824	26326.33	1265.38	23792	21469.27	987.18	18183	15919.03	1389.66
		2op	54750	54711.33	26.7	54742	54704.13	19.59	54679	54679	0	54679	54679	0
	50	rnd	14853	13614.27	619.62	30505	28252.43	1236.75	25024	23072.4	941.64	19685	16592.43	1499.71
		2op	54742	54708.53	23.09	54751	54740.27	5.28	54702	54680.5	5.71	54679	54679	0
51	20	rnd	15982	13991.63	879.01	25718	23458.7	1202.06	26597	24393.7	1284.22	21307	18672.93	1342.49
		2op	54742	54710.43	21.72	54760	54743.77	7.29	54742	54690.77	17.66	54679	54679	0
	50	rnd	14860	13878.33	636.66	26305	23002.2	1561.7	28399	26050.1	1188.98	23412	19392.2	1768.1
		2op	54742	54724.4	21.61	54751	54748	4.86	54742	54711.2	22.45	54679	54679	0

Table A.781: $m15421_7$: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46181	43661.53	1044.84	44805	42464.83	960.53	40146	37496.57	1318.14	28538	24832.37	2161.33
		2op	54679	54679	0	54679	54679	0	54679	54679	0	54679	54679	0
	50	rnd	46530	44328.57	842.69	44557	42818.3	756.17	41428	39335.9	1107.59	32071	28210.8	2226.5
		2op	54679	54679	0	54679	54679	0	54679	54679	0	54679	54679	0
51	20	rnd	46248	43539.57	1198.24	47448	45715.8	1011.99	43896	41434.27	1219.47	36932	33526.5	1662.51
		2op	54679	54679	0	54679	54679	0	54679	54679	0	54679	54679	0
	50	rnd	46494	44755	848.27	50170	47505.07	933.34	44208	42487.5	1199.75	39897	37016.7	1351.02
		2op	54724	54680.5	8.22	54694	54679.5	2.74	54679	54679	0	54679	54679	0

Table A.782: $m15421_7$: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15279	13826.37	736.52	29123	26211.73	1146.56	24128	20812.57	1243.98	18781	15696.47	1095.31
		2op	54742	54707.2	24.72	54741	54704.87	23.76	54679	54679	0	54679	54679	0
	50	rnd	16165	13911.5	795.09	30203	28280.6	1253.9	25025	22565	1348.12	19721	16701.3	1248.45
		2op	54742	54709.03	21.62	54751	54738.53	7.71	54701	54680.3	4.99	54679	54679	0
51	20	rnd	15576	14088.8	766.38	27003	23572.53	1407.93	25981	24311.5	875.72	20917	18520.27	1566.44
		2op	54742	54709.4	25.68	54751	54742.13	8.49	54741	54696.7	21.79	54679	54679	0
	50	rnd	15497	13785.3	777.69	26007	22475.63	1601.52	27742	25624.57	1237.13	22818	18851	2014.03
		2op	54742	54713.73	19.85	54756	54747.23	4.81	54742	54709.73	19.96	54679	54679	0

Table A.783: *m15421_7*: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	45548	44001	896.14	45529	43580.27	1176.03	39710	37502.97	1388.52	24733	22730.63	1388.1
		2op	54742	54683.97	14.88	54742	54683.57	14.85	54679	54679	0	54679	54679	0
	50	rnd	46075	44864.73	562.87	45996	44159.9	786.91	41600	39437.4	1315.28	29839	27269.87	1597.57
		2op	54717	54682.57	9.82	54717	54682.53	9.78	54679	54679	0	54679	54679	0
51	20	rnd	46238	44543.27	726.13	47764	46602.97	681.45	44151	42744.6	847.85	33542	30822.93	1228.81
		2op	54751	54732	20.52	54766	54743.47	6.46	54679	54679	0	54679	54679	0
	50	rnd	47374	45451.43	686.4	47986	46311.1	1136.35	45083	43322.77	893.2	37928	34911.67	1285.8
		2op	54751	54738.57	12.98	54751	54735.43	18.5	54698	54679.63	3.47	54679	54679	0

Table A.784: *m15421_7*: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15648	14731.73	451.9	22157	20892.17	609.04	21437	19345.13	989.77	15416	13155.7	635.06
		2op	54742	54728	17.81	54742	54722.33	20.54	54679	54679	0	54679	54679	0
	50	rnd	15599	14720.9	514.95	23695	22199.53	743.13	22850	21125.67	661.11	16845	14385	778.4
		2op	54751	54735.23	14.5	54751	54731.5	16.39	54686	54679.23	1.28	54679	54679	0
51	20	rnd	16164	15008.87	543.23	18375	17000.23	538.29	25382	22396	895.6	18252	16245.9	918.63
		2op	54751	54739.03	10.57	54751	54741.37	4.93	54715	54685.03	11.04	54679	54679	0
	50	rnd	16014	14974.7	457.99	18091	17353.43	449.74	26113	23589.3	810.03	17648	15848.9	1028.44
		2op	54751	54740.53	7.38	54742	54722.3	19.49	54740	54684.53	13.02	54679	54679	0

Table A.785: *m15421_7*: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10672	10272.17	270.39	11328	10974.37	164.53	10931	10301.77	237.94	9975	9202.2	377.96
		2op	11109	11019.7	34.21	11373	11195.57	82.09	11089	11009.63	16.42	11003	11003	0
	50	rnd	10904	10323.03	289.95	11308	11048.7	144.27	11093	10734.5	182.51	10391	9627.83	385.52
51	20	rnd	11256	11037.6	62.14	11373	11223.2	76.84	11373	11065.77	74.57	11003	11003	0
		2op	10863	10197.2	328.96	11122	10804.03	210.14	11198	10913.3	184.7	10679	10159.73	255.55
	50	rnd	11109	11016.33	18.59	11256	11115.7	32.36	11305	11170.77	76.08	11109	11041.73	46.78
	20	rnd	11103	10521.1	257.88	11303	11001.8	186.61	11311	11054.63	150.2	10887	10241.07	299.65
		2op	11109	11069.03	44.53	11373	11195.67	81.34	11373	11263.53	58.25	11109	11029.33	39.72

Table A.786: *x60189_4*: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6901	6020.77	449.81	10677	10155.27	431.11	10574	9500.6	501.89	9406	8373.17	547.69
		2op	11101	11020	28.41	11305	11118.73	39.3	11109	11109	0	11009	11003.4	1.52
	50	rnd	7124	6031.77	423.28	10738	9590.57	727.02	11195	10163.43	597.71	9923	8721.77	464.09
51	20	rnd	11107	11023.67	32.19	11256	11123.4	40.67	11256	11120.3	35.34	11109	11039.27	38.8
		2op	7144	6145.27	408.85	9274	8254.53	431.82	11105	10058.47	663.54	10324	9111.1	538.14
	50	rnd	11107	11017	24.19	11109	11105.93	16.8	11256	11120.2	37.7	11109	11108.73	1.46
	20	rnd	7383	6163.23	431.4	9725	8254.67	444.03	10949	9792.7	814.73	10319	9206.83	477.17
		2op	11101	11015.27	21.9	11109	11109	0	11256	11122.1	45.94	11109	11109	0

Table A.787: *x60189_4*: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10952	10295.87	335.25	11241	10946.23	182.16	10775	10346.17	222.32	9732	9167.07	243.69
		2op	11127	11016.73	31.2	11394	11221	81.43	11109	11013.4	27.26	11003	11003	0
	50	rnd	10977	10361.47	327.82	11478	11057.93	170.77	11197	10718.77	225.05	9892	9336.9	262.22
51	20	rnd	11213	11022.93	48.02	11373	11242.27	60.09	11213	11047.6	55.95	11003	11003	0
		2op	10837	10311.43	319.96	11136	10797.37	181.09	11259	10949.9	167.37	10925	10360.8	339.37
	50	rnd	11109	11034	38.37	11305	11125.4	49.91	11305	11149.53	73.95	11109	11039	40.46
	20	rnd	11047	10547.17	276.97	11283	11017.33	152	11369	11084.67	150.89	11022	10362.87	295.11
		2op	11109	11048.17	46.94	11373	11189.67	92.98	11373	11250.93	60.33	11109	11026.67	39.88

Table A.788: *x60189_4*: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7096	5942.03	504.42	10653	10133.3	290.7	11072	9612.53	530.11	9506	8607.57	505.99
		2op	11063	11011	11.29	11256	11118.5	32.1	11109	11107.57	7.85	11015	11003.4	2.19
	50	rnd	6937	6054.03	414.3	10875	9780.87	778.2	10714	9993.87	435.37	9815	8889.07	543.88
		2op	11107	11015.13	23.97	11305	11140.3	60.35	11256	11113.9	26.84	11109	11021.7	31.62
51	20	rnd	6903	6160.93	326.78	9753	8283.5	540.06	10808	10083.07	555.55	10391	9277.3	698.3
		2op	11095	11017.2	22.46	11109	11109	0	11305	11126.83	48.75	11109	11108.47	1.89
	50	rnd	6893	6107.97	380.41	8885	8054.4	445.1	11205	9932.53	828.22	10333	9223.03	540.03
		2op	11095	11011.07	16.67	11109	11105.93	16.8	11256	11125.1	45.03	11109	11108.93	0.37

Table A.789: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10864	10440.53	255.71	11348	11034.97	123.68	10100	9596.33	252.32	9007	8425.6	288.81
		2op	11109	11069.87	48.95	11305	11252.2	69.01	11088	11009.23	18.8	11003	11003	0
	50	rnd	11092	10496.53	220.49	11341	11040.2	175.86	10032	9710.37	188.98	8715	8374.7	208.39
		2op	11256	11082.53	54.35	11394	11207.33	80.04	11109	11014.33	29.12	11003	11003	0
51	20	rnd	10968	10546.23	216.78	11326	10866.13	208.77	11002	10537.53	237.02	10369	9834.77	314.6
		2op	11109	11078.33	44.11	11305	11122.07	49.73	11109	11039.33	35.39	11003	11003	0
	50	rnd	11157	10643.2	223.05	11233	10886.73	187.1	11094	10474.67	194.05	10134	9401.77	247.14
		2op	11213	11094.07	43.51	11305	11145.83	69.77	11109	11027.87	29.09	11017	11004.13	3.66

Table A.790: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7001	6436.83	321.39	9743	8813.57	290.7	9891	9101.7	410.11	8433	7920	258.95
		2op	11107	11039.93	39.47	11109	11076	37.4	11047	11006.67	8.74	11003	11003	0
	50	rnd	7286	6518.33	330.57	9396	8889.23	226.18	10175	9460	357.55	9824	8317.57	379.92
		2op	11107	11044.4	39.15	11184	11111.97	15.94	11095	11018.47	24.18	11095	11006.07	16.8
51	20	rnd	7286	6576.23	328.69	7983	7584.97	186.77	10197	9582.5	365.5	9695	8601.87	418.55
		2op	11107	11056.47	43.47	11109	11101.6	18.79	11101	11031.37	27.88	11015	11004	3.18
	50	rnd	7453	6730.43	285.31	7947	7683.8	147.99	10371	9665.43	387.11	9094	8362.4	382.41
		2op	11107	11051	43.74	11109	11082	39.32	11109	11071.17	37.99	11043	11005.33	7.63

Table A.791: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13611	12826.27	308.27	14055	13636.5	189.12	13293	12746	312.77	12423	11342.63	449.55
		2op	13967	13786.6	78.88	14064	13892.97	69.87	13868	13729.23	29.25	13721	13721	0
	50	rnd	13573	13045.53	294.64	13858	13670.97	99.82	13644	13205.27	232.24	12651	11677.87	448.06
51	20	rnd	13916	13785	65.88	14071	13925.7	60.03	13825	13742.47	31.02	13721	13721	0
		2op	13880	12822.77	363.41	13917	13466.7	224.2	13858	13435	187.32	13648	12649	351.47
	50	rnd	13873	13769.2	50	13984	13880.7	41.02	13967	13875.6	43.14	13769	13722.6	8.76
	20	rnd	13377	12979.87	193.55	13832	13572.27	164.28	13918	13645.63	181.69	13105	12573.4	337.68
		2op	13899	13797.63	62.88	14064	13921.73	71.62	14038	13900.1	52.59	13743	13721.73	4.02

Table A.792: *x60189_5*: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	8306	7528.3	483.01	13120	12001.27	547.82	12857	11246.33	616.43	11534	10026.4	632.59
		2op	13764	13732.6	13.91	13990	13889.2	33.8	13874	13837.57	53.75	13721	13721	0
	50	rnd	8241	7350.1	394.03	13411	11944.03	693.07	13351	11786.63	513.56	11384	10242.03	543.27
51	20	rnd	13815	13737.17	19.13	14064	13905.73	56.06	13878	13872.9	2.86	13749	13723.8	8.23
		2op	8385	7619.9	457.63	12005	10125.33	521.55	13016	11917.73	600.61	11606	10737.2	539.74
	50	rnd	13751	13735.2	13.03	13964	13877.93	31.36	13968	13876.63	18.17	13863	13745.93	42.59
	20	rnd	8649	7718.5	458.54	10774	9922.87	471.68	13128	12035.17	772.15	11530	10764.23	368.08
		2op	13747	13727.8	10.97	13885	13859.8	38.59	14064	13901.57	53.02	13869	13766.4	58.6

Table A.793: *x60189_5*: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13260	12847.87	223.87	13923	13622.43	157.3	13347	12762.47	347.94	12093	11145.97	527.92
		2op	13873	13780.07	57.52	14030	13905.27	62.45	13818	13724.9	17.96	13721	13721	0
	50	rnd	13397	12873.4	286.71	14060	13661.03	187.13	13674	13023.87	249.39	12541	11482.27	484.03
51	20	rnd	13916	13797.03	64.92	14049	13916.4	71.45	13818	13735.23	27.15	13721	13721	0
		2op	13654	12832.8	306.68	13988	13457.93	231.95	13964	13441.57	235.91	13622	12689.2	402.8
	50	rnd	13873	13764.53	49.16	13970	13883.87	43.92	13967	13877.6	35.76	13740	13722.27	4.82
	20	rnd	13688	13074.53	273.17	13956	13607.33	167.3	14001	13652.33	173.65	13330	12725.03	269.43
		2op	13878	13791.3	59.98	14064	13908.93	60.34	14064	13909.2	58.79	13843	13725.47	22.31

Table A.794: *x60189_5*: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	8397	7580.33	542.99	13464	12150.7	567.58	12822	11252.9	619.84	11597	10094.17	557.88
		2op	13764	13731.97	13.61	13968	13876.07	17.73	13874	13820.07	62.08	13721	13721	0
	50	rnd	8502	7488.03	470.12	13664	12170.63	623.42	12756	11602.9	587.06	11090	10289.87	488.23
		2op	13751	13730.37	11.66	13968	13891.8	34.94	13878	13871.77	3.46	13747	13721.87	4.75
51	20	rnd	8401	7592.93	407.75	11713	10195.87	490.35	13140	11899.5	726.53	12040	10669.53	584.52
		2op	13815	13734.63	19.61	13967	13890.2	34.56	13968	13880.1	24.03	13858	13746.4	41.76
	50	rnd	8090	7498.23	381.27	10628	9671.9	425.96	13349	12041.73	707	11711	10686.03	454.41
		2op	13747	13731.23	11.95	13968	13854.97	59.26	13967	13876.9	17.54	13874	13741.03	35.33

Table A.795: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13475	12913.97	293.02	13995	13651.77	179.98	12684	12153.53	270.77	11054	10375.87	348.58
		2op	13878	13811.9	57.64	14064	13930.47	53.49	13867	13726.63	26.84	13721	13721	0
	50	rnd	13471	13078.4	181.58	13954	13679.97	152.72	12996	12375.67	263.87	11137	10582.1	312.17
		2op	13967	13843.4	46.56	14037	13886.8	52.09	13840	13732	29.87	13721	13721	0
51	20	rnd	13768	13165.23	243.96	13768	13418.27	171.28	13603	13078.83	242.82	12839	12118.07	356.37
		2op	13873	13817	56.13	13967	13892.67	37.86	13820	13751.13	35.26	13721	13721	0
	50	rnd	13814	13228.27	238.53	13978	13498.33	175.93	13700	13076.93	251.18	12531	11862.73	327.37
		2op	13967	13858.3	32.5	13967	13899.9	45.53	13817	13738.9	29.9	13721	13721	0

Table A.796: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	8535	8023.37	285.47	11335	10486.47	307.46	11886	10661.67	417.37	10133	9290.47	328.46
		2op	13869	13750.67	32.1	13874	13772.6	39.99	13747	13722.53	5.27	13721	13721	0
	50	rnd	8726	8105.3	292.67	11593	10620.9	310	12134	11089.83	425.13	10612	9829.27	340.19
		2op	13817	13746.5	15.5	13872	13815.67	46.55	13747	13723.07	6.76	13721	13721	0
51	20	rnd	8918	8210.93	294.06	9813	9412.97	222.38	11796	11240.77	316.82	11418	10064.6	559.6
		2op	13817	13748.77	20.56	13872	13775.77	38.19	13749	13725.97	8.75	13721	13721	0
	50	rnd	8784	8343.17	246.53	9736	9312.23	216.78	12270	11539.07	335.44	11154	10074.6	506.46
		2op	13864	13754.3	24.42	13868	13764.23	28.89	13812	13735.53	18.83	13721	13721	0

Table A.797: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16965	16028.7	404.86	17423	16892.63	266.59	15825	14757.1	361.75	13412	12500.03	574.96
		2op	18017	18002.6	11.18	18017	17998.67	8.54	17994	17994	0	17994	17994	0
	50	rnd	17097	16277.33	372.87	17654	17324.8	223.58	16547	15613.57	456.46	14130	13026.77	602.56
51	20	rnd	18017	18003.37	11.36	18017	18014	7.19	17994	17994	0	17994	17994	0
		2op	16620	15895.33	411.27	17680	17028.3	291.67	17141	16354.13	314.31	15840	14748.9	493.76
	50	rnd	18017	18007.03	11.59	18017	18017	0	18017	17999.53	9.84	17994	17994	0
	20	rnd	17090	16382.73	389.92	17538	17037.47	200.56	17337	16825.33	267.53	15654	14782.3	445.73
		2op	18017	18010.1	10.72	18017	18017	0	18017	18007.43	11.19	17994	17994	0

Table A.798: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10299	9499.87	391.72	15770	14333.5	608.28	14217	13261.63	528.49	12527	11580.9	494.48
		2op	18017	18007.03	11.59	18017	18017	0	18017	18005.93	8.5	17994	17994	0
	50	rnd	10463	9429.83	546.91	15576	14531.93	547.88	14472	13679.93	399.53	12756	11964.8	472.1
51	20	rnd	18017	18006.27	11.67	18017	18017	0	18017	18017	0	18017	17994.77	4.2
		2op	10309	9538.7	429.86	14330	12998.63	606.88	15251	13935.93	540.34	13486	12526.57	552.38
	50	rnd	18017	18007.03	11.59	18017	18017	0	18017	18017	0	18017	17997.2	6.16
	20	rnd	10364	9747.9	344.13	13694	12612.83	540.21	15145	14378.1	505.45	13903	12651.77	598.01
		2op	18017	18004.73	11.67	18017	18017	0	18017	18017	0	18016	17997.07	6.73

Table A.799: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16837	16131.63	316.26	17385	16788.5	320.94	15444	14734.7	370.66	13984	12651.93	631.1
		2op	18017	17996.47	7.02	18017	17998.83	8.5	17994	17994	0	17994	17994	0
	50	rnd	16931	16151.1	378.7	17682	17179.2	274.37	16504	15499.37	533.95	13945	12929.57	441.13
51	20	rnd	18017	18001.67	11.03	18017	18011.07	9.54	17994	17994	0	17994	17994	0
		2op	17000	16061.1	377.98	17536	16868.17	265.7	16981	16316.4	317.07	15634	14557.67	536.6
	50	rnd	18017	18006.6	11.37	18017	18017	0	18017	17997.73	7.79	17994	17994	0
	20	rnd	17519	16342.93	401.85	17603	17056.27	233.79	17595	16913.3	349.49	15981	14704.3	560.17
		2op	18017	18007.8	11.46	18017	18015.8	4.57	18017	18011.6	9.19	17994	17994	0

Table A.800: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10189	9319.9	358.36	15458	14362.03	679.96	13992	12985.27	604.02	12695	11713	556.6
		2op	18017	18005.5	11.7	18017	18017	0	18017	18002.07	8.69	17994	17994	0
	50	rnd	10019	9407.3	365.76	16037	14610.97	561.47	14809	13520.03	542.37	13200	12124.8	501.79
		2op	18017	18003.97	11.59	18017	18017	0	18017	18016.6	1.83	17994	17994	0
51	20	rnd	10264	9514.97	424.21	14817	13292.93	769.38	15072	14089.97	570.72	13238	12294.57	527.48
		2op	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18014	17997.17	6.38
	50	rnd	10644	9747.1	413.59	13859	12626.33	558.11	15867	14429.8	661.43	13779	12710.1	554.4
		2op	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18014	17998.33	6.91

Table A.801: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16640	16139.7	247.11	17657	16951.07	297.33	15468	14746.5	423.72	12386	11406	545.18
		2op	18017	18016.4	3.29	18017	18017	0	17994	17994	0	17994	17994	0
	50	rnd	16933	16342.73	338.17	17581	16991.7	313.54	15737	14895.87	377.01	13277	11866.23	489.19
		2op	18017	18015.47	5.84	18017	18015.3	5.47	17994	17994	0	17994	17994	0
51	20	rnd	16984	16335.57	252.03	17187	16749.2	259.94	16571	15745.23	331.1	15170	14072.97	512.88
		2op	18017	18017	0	18017	18017	0	18017	18006.2	10.53	17994	17994	0
	50	rnd	17104	16549.43	313.91	17483	16977.37	214.13	16591	15934.93	335.73	15408	14070.33	495.05
		2op	18017	18017	0	18017	18017	0	18017	18000.47	10.22	17994	17994	0

Table A.802: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10782	9985.37	405.91	13264	12601.27	277.07	13746	12279.87	569.54	11260	10371.63	349.7
		2op	18017	18017	0	18017	18017	0	18008	17994.7	2.61	17994	17994	0
	50	rnd	10756	10207.6	300.12	14508	13018.63	377.81	13764	13026.67	370.96	11956	10827.93	429.96
		2op	18017	18016.23	4.2	18017	18017	0	18017	17997.47	7.28	17994	17994	0
51	20	rnd	10807	10093.8	282.53	12350	11600.5	320.75	13974	13196.03	433.77	12353	11452.6	503.85
		2op	18017	18017	0	18017	18017	0	18017	18005.57	9.87	17994	17994	0
	50	rnd	10890	10245.33	271.75	12130	11549.73	285.96	14734	13711.87	528.65	12161	11309.2	466.91
		2op	18017	18017	0	18017	18017	0	18017	18008.77	10.14	17994	17994	0

Table A.803: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19788	18962.63	493.28	20367	19746.33	321.99	18536	17484.83	558.67	16034	14951.13	598.88
		2op	20829	20829	0	20944	20836.6	23.82	20829	20829	0	20829	20829	0
	50	rnd	19876	19258.63	330.25	20740	20265.57	278.31	19454	18459.03	494.59	17099	15838.63	753.06
51	20	rnd	20945	20833.63	21.45	21041	20886.53	69.37	20829	20829	0	20829	20829	0
		2op	20829	20829	0	21057	20885.93	77.22	20864	20830.17	6.39	20829	20829	0
	50	rnd	19724	18924.17	378.34	20492	19931.53	315.99	20011	19337.77	334.39	18698	17500.97	530.87
	20	rnd	20829	20829	0	21057	20885.93	77.22	20864	20830.17	6.39	20829	20829	0
		2op	20829	20829	0	21057	20885.93	77.22	20864	20830.17	6.39	20829	20829	0
	50	rnd	19709	19196.63	339.97	20829	20087.13	364.91	20579	19780.07	320.63	18290	17374.1	471.22
	20	rnd	20843	20829.47	2.56	21051	20908.07	75.19	20889	20838.53	21.81	20829	20829	0
		2op	20843	20829.47	2.56	21051	20908.07	75.19	20889	20838.53	21.81	20829	20829	0
	50	rnd	20843	20829.47	2.56	21051	20908.07	75.19	20889	20838.53	21.81	20829	20829	0

Table A.804: $x60189_7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12785	11705.33	468.52	17707	16810.3	480.84	16547	15571.9	433.98	14703	13682.43	594.33
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	12889	11761.6	551.47	18836	17039.13	693.56	17417	15979.73	649.37	15833	14354.9	619.96
51	20	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	12756	11799.23	502.46	17679	15779	907.61	17653	16300	670.42	16408	14888.13	790.26
	20	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	12661	11844.63	522.46	16900	15057.77	697.78	18016	16705.17	671.05	16776	14715.77	629.41
	20	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.805: $x60189_7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19682	18949.8	345.68	20728	19742.37	336.73	18680	17578.13	552.58	15962	14678.8	649.28
		2op	20997	20836.6	32.21	20926	20835.13	20.58	20829	20829	0	20829	20829	0
	50	rnd	20068	19139.8	451.68	20567	20103.6	257.77	19487	18328.33	525.25	16255	15409.23	482.6
51	20	rnd	20880	20830.73	9.31	20981	20849.1	41.22	20829	20829	0	20829	20829	0
		2op	20880	20830.73	9.31	20981	20849.1	41.22	20829	20829	0	20829	20829	0
	50	rnd	19588	18860.97	307.73	20385	19735.93	263.68	19616	19235.77	269.64	18522	17271.13	640.67
	20	rnd	20889	20831	10.95	21006	20878.73	59.22	20889	20831	10.95	20829	20829	0
		2op	20889	20831	10.95	21006	20878.73	59.22	20889	20831	10.95	20829	20829	0
	50	rnd	19943	19217.5	342.15	20542	20081.57	245.59	20313	19714.23	338.77	18249	17332.13	497.35
	20	rnd	20922	20832.83	17.31	21059	20899.43	75.67	20922	20832.33	16.98	20829	20829	0
		2op	20922	20832.83	17.31	21059	20899.43	75.67	20922	20832.33	16.98	20829	20829	0
	50	rnd	20922	20832.83	17.31	21059	20899.43	75.67	20922	20832.33	16.98	20829	20829	0

Table A.806: $x60189_7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12825	11577.2	564.28	18127	16823.6	572.83	16724	15424.37	502.58	14840	13600.13	792.47
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	12772	11569.7	501.25	18145	17216.53	587.51	16893	15869.03	508.8	15345	13980.37	636.15
51	20	rnd	12665	11937.53	458.55	17827	15989.13	1072.48	17238	16046.8	595.46	15562	14572.07	541.72
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	12723	11818.4	571.48	16857	15109.97	808.07	17908	16858.37	585.09	16004	14702	613.22
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.807: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19806	19113.13	355.25	20506	19936.07	294.36	18514	17610.5	510.68	14593	13627.5	587.02
		2op	20829	20829	0	21057	20857.9	57.94	20829	20829	0	20829	20829	0
	50	rnd	19934	19410.77	342.08	20813	20003.2	311.69	18626	17922.3	356.22	15465	14226.87	517.97
51	20	rnd	20911	20835.53	20.31	21051	20859.23	52.41	20829	20829	0	20829	20829	0
		2op	20106	19252.13	411.43	20389	19749.53	350.38	19409	18648.37	334.64	17532	16564.77	454.05
	50	rnd	20889	20831	10.95	20997	20876.77	58.89	20889	20831	10.95	20829	20829	0
		2op	20071	19486.97	275.87	20402	19986.03	232.86	19489	18719.37	417.22	17655	16758.43	454.86
			20997	20844.3	42.09	21051	20882.77	66.9	20889	20831	10.95	20829	20829	0

Table A.808: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13318	12112.6	401.65	15440	14864.03	275.46	15376	14551.77	412.22	13259	12216.83	439.05
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	13035	12302.43	412.54	16198	15350.33	308.81	16637	15403.5	515.34	14505	12912.03	509.01
51	20	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	13778	12364.47	505.34	14424	13757.03	261.09	17072	15632.2	618.08	14570	13443.53	523.74
	50	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	13727	12481.3	468.14	14360	13883.87	249.53	16828	15885.07	428.62	14337	13542.4	509.72
			20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.809: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	586.1	5.43	594	592.13	1.7	595	591.07	2.24	586	577.07	4.64
		2op	596	591.47	2.56	596	594.07	1.53	595	594.07	1.39	594	589.87	1.76
	50	rnd	594	586.83	4.42	596	593.6	1.5	596	593.77	1.17	590	580.53	3.99
51	20	rnd	595	591.57	2.06	595	593.97	1.5	596	594.5	1.04	595	589.83	1.66
		2op	593	585.63	4.37	595	592.3	1.66	596	593.4	1.67	595	591.03	2.61
	50	rnd	595	593.07	1.95	596	594.57	0.63	596	595.07	0.52	595	594.7	0.53
	20	rnd	594	588.37	4.57	595	593.43	1.19	596	593.9	1.35	595	591.2	2.73
		2op	595	592.73	2.32	596	594.87	0.9	596	595	0.87	595	594.1	1.3

Table A.810: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	485	441.93	36.03	593	576.43	22.73	596	587.47	5.42	594	580.17	7.33
		2op	592	589.67	1.12	595	594.83	0.38	595	594.2	0.48	594	592.93	1.36
	50	rnd	488	443.17	29.61	593	552.33	31.58	596	587.03	10.68	594	584.7	5.63
51	20	rnd	592	589.97	1.3	595	594.9	0.31	595	594.83	0.38	595	594.1	0.31
		2op	513	463	28.06	586	549.6	31.08	594	582.77	17.19	594	585.87	4.01
	50	rnd	592	589.97	1.22	595	594.27	0.94	595	594.7	0.47	595	594.13	0.43
	20	rnd	530	473.4	28.17	588	537.2	31.67	593	567	29.06	593	583.2	10.3
		2op	592	589.9	1.16	595	594.4	0.5	595	594.9	0.31	595	594.17	0.46

Table A.811: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	594	583.53	3.93	595	592.1	1.73	596	590.6	2.43	589	576.43	4.9
		2op	594	590.6	2.06	596	594	1.44	596	593.37	1.3	594	589.17	0.91
	50	rnd	593	587.8	3.45	596	593.03	1.88	596	593.03	1.63	586	580.47	3.19
51	20	rnd	596	591.57	2.22	596	594.27	1.31	596	594.27	1.05	594	589.33	1.15
		2op	592	585.37	4.89	595	591.57	2.39	596	593.43	1.68	594	591	2.67
	50	rnd	595	592.43	2.19	595	594.43	0.82	596	595.03	0.41	596	594.63	0.85
	20	rnd	595	586.93	4.02	595	593.8	0.96	596	593.77	1.41	595	591.4	2.22
		2op	595	593.1	1.95	596	595	0.79	596	595.1	0.8	596	594.23	1.28

Table A.812: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	483	435.97	28.97	594	574	22.77	593	587.17	2.78	588	578.47	5.76
		2op	592	590.13	1.25	595	594.8	0.55	595	594.1	0.31	594	592.3	1.56
	50	rnd	493	438.57	30.2	593	568.13	25.34	595	582.33	14.81	593	582.63	6.22
51	20	rnd	592	590.3	1.44	595	594.83	0.38	595	594.67	0.48	594	593.97	0.18
		2op	518	453.63	29.96	587	553.97	23.6	595	585.4	16.32	592	584.73	4.15
	50	rnd	592	589.93	1.23	595	594.53	0.51	595	594.67	0.48	595	594.13	0.35
	20	rnd	561	467.6	31.66	588	547.23	26.53	593	563.33	27.29	593	582.67	7.17
		2op	592	590.03	1.27	595	594.3	0.47	595	594.9	0.31	595	594.1	0.4

Table A.813: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	593	587.23	3.2	595	592.83	1.37	579	573.33	3.39	568	550.73	5.64
		2op	596	594.23	0.94	596	595.1	0.55	594	589.17	0.91	589	589	0
	50	rnd	594	588.97	2.95	595	592.17	1.72	582	577.5	2.75	575	552.57	6.66
51	20	rnd	595	593.83	1.46	596	594.8	0.48	592	589.27	0.78	589	589	0
		2op	595	588.7	2.97	595	592.97	1.35	593	588.57	2.5	587	578.13	4.11
	50	rnd	595	594.13	0.35	596	595.07	0.25	595	594.27	0.45	594	590.87	2.03
	20	rnd	594	591.13	2.46	595	591.8	1.79	591	587.03	2.28	580	568.63	5.87
		2op	596	594.67	0.55	596	595.07	0.58	595	593.07	1.53	592	589.1	0.55

Table A.814: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	498	477.93	12.87	582	572.83	5.56	584	573.33	4.51	563	552.3	5.26
		2op	592	591.3	1.12	594	593.6	0.97	592	589.67	1.12	589	589	0
	50	rnd	523	485.1	13.42	585	577.27	4.62	587	580.7	2.94	576	559.57	6.13
51	20	rnd	592	591.2	1.1	595	594.07	0.25	594	592.37	1.59	590	589.07	0.25
		2op	540	489.77	13.6	581	551.87	12.09	590	579.33	3.6	575	561.97	6.59
	50	rnd	594	591.53	1.01	594	594	0	594	593.8	0.61	594	589.2	0.92
	20	rnd	550	496.23	16.5	565	545.2	13.72	585	580.17	3.45	573	561.27	5.67
		2op	592	591.43	0.97	594	594	0	595	593.97	0.41	592	589.27	0.78

Table A.815: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	774	760.67	9.81	776	772.63	2.14	776	772.27	2.05	772	754.63	8.74
		2op	772	766.8	2.34	776	772.33	2.04	775	772.2	1.61	765	765	0
	50	rnd	774	768.03	5.49	776	774.27	1.17	777	774.47	1.74	772	762.5	4.18
51	20	rnd	774	767.93	2.5	776	773.7	1.62	777	774.33	1.65	769	765.47	0.86
		2op	774	761.33	10.68	775	771.33	2.96	777	773.27	2.24	777	769.57	3.09
	50	rnd	770	767.17	1.78	775	771.63	1.59	775	772.47	0.97	772	770.93	1.36
	20	rnd	775	768.4	6.46	777	773.77	1.61	777	774.8	1.54	777	772.9	2.29
		2op	771	768	1.53	775	773.1	1.32	777	773.83	1.68	774	771.33	1.3

Table A.816: f_{25_400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	609	482.17	43.8	774	764.47	8.14	775	764.8	6.71	769	752.8	12.94
		2op	769	766.23	1.61	771	769.07	0.37	769	768.87	0.51	769	768.8	0.76
	50	rnd	567	482.2	40.29	775	739.7	38.56	777	769.43	3.32	777	756.37	12.41
51	20	rnd	769	765.43	1.07	769	768.93	0.37	771	769	0.53	769	769	0
		2op	769	499.07	26.77	761	705.9	50.68	777	767.4	4.99	770	760.4	10.25
	50	rnd	769	766.87	1.87	769	769	0	769	769	0	771	769	0.53
	20	rnd	586	523.63	34.71	738	652.97	54.95	777	748	21.79	777	763.7	10.38
		2op	769	765.97	1.59	769	769	0	769	769	0	769	769	0

Table A.817: f_{25_400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	774	765.53	5.05	777	773.17	1.88	777	771.77	2.87	767	754.5	7.03
		2op	771	767.03	2.19	777	772.6	2.18	775	771.2	1.83	769	765.2	0.76
	50	rnd	777	768.2	4.84	777	773.63	1.65	777	773.8	1.75	767	759.23	4.99
51	20	rnd	774	768.17	2.46	777	773.9	1.83	777	774	1.64	769	765.47	1.22
		2op	776	761.7	12.04	777	771.63	2.74	777	773.4	1.92	777	770.8	3.9
	50	rnd	769	767.27	1.66	775	772.1	1.32	776	772.87	1.38	772	770.93	1.26
	20	rnd	775	769.2	3.75	777	773.97	1.71	777	775.1	1.18	775	771.43	3.15
		2op	775	768.67	2.58	775	772.9	1.27	777	773.93	1.72	775	771.43	1.91

Table A.818: f_{25_400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	574	491.7	48.07	772	763.5	7.66	773	765.7	6.14	770	752.43	15.25
		2op	769	765.8	1.45	769	768.6	0.97	772	769.1	0.55	769	768.17	1.49
	50	rnd	598	488.67	41.81	771	751.03	19	776	768.37	3.63	773	757.27	11.06
51	20	2op	769	765.77	1.52	769	768.8	0.61	772	769.17	0.65	769	769	0
		rnd	594	516.03	33.69	767	704.23	46.78	775	765.43	11.78	771	761.67	9.2
	50	2op	769	766.07	1.55	769	769	0	771	769.07	0.37	769	768.87	0.51
	50	rnd	571	512.4	32.92	763	688.33	51.65	771	738.37	30.78	777	765.13	6.66
		2op	769	765.9	1.47	769	769	0	769	769	0	769	769	0

Table A.819: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	772	765.97	4	775	772.63	1.96	768	753.33	6.94	734	717.97	7.33
		2op	772	768.1	1.86	775	772.1	0.88	769	765.27	1.01	765	765	0
	50	rnd	776	769.6	3.33	777	773.53	1.91	763	757.2	3.45	739	717.23	8.84
51	20	2op	775	768.87	2.64	775	772.13	1.48	770	765.6	1.4	765	765	0
		rnd	772	768.07	2.32	777	772.3	2.45	777	768.97	3.01	767	757.2	4.45
	50	2op	771	768.67	1.27	775	771.23	1.1	772	769.93	1.34	769	765.7	1.29
	50	rnd	775	770.7	3.05	775	771.67	2.48	772	768.07	1.95	760	746.1	6.48
		2op	772	769.7	1.24	775	771.57	1.22	772	769.1	0.96	765	765	0

Table A.820: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	620	530.33	26.78	762	748.5	9.74	765	751.87	6.91	738	725.13	7.78
		2op	769	767.4	1.77	769	768.8	0.66	766	765.33	0.48	765	765	0
	50	rnd	593	541.9	24.58	769	739.37	19.97	766	758.6	4.12	746	730.9	8.09
51	20	2op	769	767.83	1.58	769	769	0	769	767.37	1.33	765	765	0
		rnd	616	550.03	22.6	707	644.83	28.13	769	757.47	5.71	753	738.07	9.45
	50	2op	769	768.57	1.14	769	769	0	769	768.9	0.55	769	765.37	1.03
	50	rnd	632	568.93	26.69	699	647.6	25.28	771	759.7	4.65	755	738.83	8.89
		2op	769	768.63	0.93	769	768.9	0.55	769	769	0	768	765.13	0.57

Table A.821: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	916	905	4.91	919	914.77	2.57	921	912.7	3.64	904	897.07	4.83
		2op	917	911.03	4.21	921	916.87	1.7	918	915.53	2	916	907.8	2.64
	50	rnd	916	909.4	3.6	919	916.37	2.31	921	917.13	2.13	913	901.87	5.29
51	20	2op	918	912.73	3.73	921	917.23	1.65	921	917.53	1.57	914	908.57	2.51
		rnd	915	904.27	6.09	918	913.13	2.13	919	915.63	2.24	918	912	2.78
	50	2op	916	913.47	2.9	919	916.1	1.18	918	916.83	1.34	917	915.63	1.47
		rnd	916	907.53	3.95	919	914.57	2.56	919	916.53	1.59	918	911.93	2.98
		2op	916	914.17	2.76	921	917.17	1.18	921	917.9	1.42	918	915.97	1.3

Table A.822: $f_{25.500}$: basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	703	587.97	64.06	918	888.8	26.07	915	907.67	4.38	916	899.33	10.86
		2op	916	910.27	3.43	916	915.83	0.75	916	916	0	916	915.9	0.55
	50	rnd	678	597.2	55.91	917	850.37	46.01	915	909.23	3.28	917	903.27	11.02
51	20	2op	916	910.9	3.79	916	915.97	0.18	918	916.07	0.37	916	915.97	0.18
		rnd	692	630.53	37.53	900	792.37	56.62	916	901.33	15.68	913	905.3	5.68
	50	2op	916	910.13	3.53	916	916	0	916	916	0	916	915.97	0.18
		rnd	737	638.2	38.74	896	784.77	52.5	908	834.1	42.73	913	906.27	4.15
		2op	916	909.33	3.09	916	916	0	916	916	0	916	915.97	0.18

Table A.823: $f_{25.500}$: transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	912	905.27	4.38	919	915.2	2.61	919	913.3	3.15	908	897.03	6.01
		2op	917	911.83	3.78	921	916.6	1.59	919	915.23	1.59	916	906.97	2.28
	50	rnd	914	906.8	3.28	919	915.93	1.55	921	915.77	2.3	912	898.5	4.88
51	20	2op	917	912.9	3.58	919	917	1.44	921	917.1	1.27	916	908.6	2.8
		rnd	915	906.33	4.71	917	913.17	2.44	919	914.8	2.47	919	911.6	3.51
	50	2op	917	913.87	3.33	919	915.87	1.87	921	917.07	1.26	918	915.9	0.88
		rnd	918	909.83	3.34	919	915.5	2.26	919	917.4	1.69	918	912.1	3.75
		2op	918	913.97	2.92	921	917.2	1.56	921	917.97	1.56	916	915.67	0.92

Table A.824: $f_{25.500}$: basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	650	575.67	47.99	916	890.47	24.86	917	907.67	4.22	914	893.67	18.66
		2op	916	910.93	3.8	916	916	0	916	916	0	916	916	0
	50	rnd	695	583.97	58.68	909	867.23	36.43	918	911	3.28	917	903.53	7.77
			916	910	3.11	916	915.97	0.18	918	916	0.69	916	915.83	0.91
51	20	rnd	718	631.63	45.52	889	800.93	56.42	914	897.83	22.99	914	906	6.5
		2op	916	910.2	3.2	916	916	0	916	916	0	916	916	0
	50	rnd	705	632.13	43.41	898	789.57	45.96	908	825.67	47.8	919	906.7	4.99
			916	910.07	3.69	916	916	0	916	916	0	916	916	0

Table A.825: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	916	907.27	4.29	919	915.2	1.94	909	892.7	7.02	871	853.97	8.2
		2op	917	914.03	2.72	918	916.63	0.72	911	907	1.74	906	906	0
	50	rnd	914	908.77	3.02	919	915.93	1.8	913	898.53	4.67	874	856.13	9.71
			916	914.5	2.22	921	916.77	1.14	916	907.2	2.3	906	906	0
51	20	rnd	917	910.1	3.71	919	914.9	2.7	916	910.67	2.89	906	899	3.84
		2op	916	915.83	0.91	917	916.07	0.25	916	916	0	916	911.4	1.81
	50	rnd	918	911.7	2.84	918	913.8	2.3	915	909.57	2.45	907	888.83	7.86
			916	915.97	0.18	918	916.17	0.46	916	914.47	1.76	912	906.6	1.43

Table A.826: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	707	657.37	28.07	906	872.9	20.93	911	893.77	7.76	882	859.03	16.67
		2op	916	913.1	2.43	916	916	0	916	912.23	2.03	907	906.03	0.18
	50	rnd	728	677.87	26.42	904	865.07	29.61	914	901.87	5.39	895	871.63	10.68
			916	913.5	2.4	916	916	0	916	916	0	908	906.27	0.52
51	20	rnd	774	688.97	34.22	847	779.77	24.54	909	897.93	6.84	892	877.57	7.86
		2op	916	915.87	0.73	916	916	0	916	916	0	912	908.3	2.1
	50	rnd	771	702.23	26.25	842	778.6	26.2	915	900.33	5.98	894	865.23	16.7
			916	915.3	1.6	916	916	0	916	916	0	912	908	2.18

Table A.827: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1541	1506.77	21.61	1532	1514.83	10.15	1485	1447.47	20.31	1354	1293.67	30.66
		2op	1553	1553	0	1553	1553	0	1553	1553	0	1553	1553	0
	50	rnd	1543	1515.93	18.41	1540	1521.27	8.4	1513	1483.63	14.3	1424	1348.73	37.46
51	20	2op	1558	1553.23	0.97	1561	1553.27	1.46	1553	1553	0	1553	1553	0
		rnd	1545	1513.57	16.45	1543	1518.3	11.17	1545	1513.53	14.3	1477	1434.93	28.06
	2op	1558	1553.63	1.38	1558	1553.77	1.61	1562	1553.83	1.78	1553	1553	0	
50	rnd	1549	1517.77	17.61	1546	1531.17	9.2	1550	1524.7	8.66	1480	1429.87	26.75	
	2op	1562	1554.17	2.17	1561	1553.77	1.87	1559	1553.73	1.44	1553	1553	0	

Table A.828: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1036	944.67	48.73	1519	1428.63	64.84	1488	1361.6	57.53	1346	1209.13	55.29
		2op	1564	1554.3	2.12	1565	1557.73	3.96	1554	1553.03	0.18	1553	1553	0
	50	rnd	1048	948.53	49.43	1535	1461.77	62.57	1525	1415.8	55.55	1364	1251.2	62.37
		2op	1555	1553.6	0.93	1565	1561.3	3.92	1564	1555.4	2.92	1555	1553.07	0.37
51	20	rnd	1046	955.93	42.42	1491	1285.77	107.87	1494	1409.4	48.33	1420	1280.93	61.47
		2op	1556	1553.6	0.97	1565	1559.47	4.25	1565	1556.8	3.87	1553	1553	0
	50	rnd	1071	947.63	48.05	1368	1200.23	72.88	1527	1450.03	42.37	1430	1301.4	62.79
		2op	1556	1554.07	1.08	1565	1559.37	4.37	1565	1560.23	4.19	1555	1553.13	0.51

Table A.829: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1543	1509.57	18.27	1528	1510.83	8.95	1502	1446.97	24.63	1346	1279.83	32.49
		2op	1554	1553.03	0.18	1555	1553.07	0.37	1553	1553	0	1553	1553	0
	50	rnd	1534	1508.33	18.2	1532	1517.37	7.1	1506	1476.13	14.95	1405	1332.03	33.96
		2op	1560	1553.4	1.45	1553	1553	0	1553	1553	0	1553	1553	0
51	20	rnd	1541	1506.53	24.55	1539	1519.1	13.05	1539	1514.87	11.35	1476	1425.27	28.44
		2op	1562	1554.6	2.88	1556	1553.37	0.89	1563	1554.33	2.52	1553	1553	0
	50	rnd	1558	1514.83	25.31	1546	1530.13	9.64	1543	1526.57	10.13	1460	1423.37	22.76
		2op	1559	1553.4	1.33	1564	1553.57	2.08	1562	1553.53	1.7	1553	1553	0

Table A.830: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1021	951.4	39.31	1522	1428.73	47.05	1435	1334.13	63.5	1333	1197.2	50.56
		2op	1556	1553.7	1.06	1565	1557.5	3.98	1560	1553.37	1.35	1553	1553	0
	50	rnd	1063	958.1	41.72	1530	1434.4	94.32	1491	1419.97	53.12	1307	1230.2	40.3
51	20	rnd	1556	1553.53	0.97	1566	1560.4	4.34	1556	1553.87	1.04	1553	1553	0
		2op	1038	960.13	38.28	1474	1333.53	113.95	1494	1420.6	56.67	1433	1299.83	65.87
	50	rnd	1555	1553.57	0.86	1565	1560.2	4.37	1564	1556.63	3.31	1553	1553	0
	20	rnd	1061	960.4	50.2	1402	1209.93	91.12	1526	1449.43	42.43	1436	1296.67	54.08
		2op	1555	1553.8	0.96	1565	1560.57	4.15	1565	1559.7	4.37	1553	1553	0

Table A.831: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1549	1511.8	23.41	1536	1517.57	12.9	1459	1393.6	30.52	1238	1164.67	29.06
		2op	1565	1554.03	2.91	1564	1554.73	3.34	1553	1553	0	1553	1553	0
	50	rnd	1551	1518.57	14.39	1533	1513.7	10.37	1456	1411.9	23.35	1312	1222.23	38.02
51	20	rnd	1557	1553.7	1.29	1562	1553.43	1.72	1553	1553	0	1553	1553	0
		2op	1545	1519.7	14.11	1554	1533.17	12.19	1490	1458.2	15.88	1393	1345	15.92
	50	rnd	1564	1556.03	2.24	1566	1562.6	3.15	1554	1553.13	0.35	1553	1553	0
	20	rnd	1547	1530.4	10.43	1546	1527	9.35	1484	1456.3	13.18	1411	1356.03	23.81
		2op	1566	1556.57	3.32	1566	1556.4	3.44	1553	1553	0	1553	1553	0

Table A.832: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1064	996.7	39.06	1297	1238.23	23.45	1330	1255.5	31.07	1223	1106.03	44.07
		2op	1556	1553.93	1.05	1555	1553.97	0.96	1553	1553	0	1553	1553	0
	50	rnd	1037	993.27	25.61	1328	1274.37	26.78	1357	1309.2	28.84	1205	1145.87	31.86
51	20	rnd	1556	1554.4	0.97	1555	1554.2	0.92	1555	1553.07	0.37	1553	1553	0
		2op	1086	1029.43	30.31	1155	1113.6	19.2	1379	1318.53	33.53	1279	1186.83	41.51
	50	rnd	1556	1554.27	1.01	1555	1554.73	0.58	1555	1553.13	0.51	1553	1553	0
	20	rnd	1106	1030.33	34.4	1151	1116.43	20.39	1406	1336.03	31.04	1287	1146.4	49.79
		2op	1563	1555.37	1.9	1564	1555.5	2.35	1555	1553.07	0.37	1553	1553	0

Table A.833: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1527	1488.17	19.65	1535	1510.43	10.9	1473	1424.27	24.4	1342	1282.53	28.69
		2op	1557	1532.83	5.17	1541	1532.13	2.45	1531	1531	0	1531	1531	0
	50	rnd	1526	1494.07	15.29	1532	1511.8	11.24	1505	1474.17	21.37	1369	1317.4	30.99
		2op	1539	1531.7	2.12	1549	1533.37	4.35	1540	1531.47	1.78	1531	1531	0
51	20	rnd	1524	1488.47	21	1538	1511.07	13.44	1529	1502.6	12.73	1478	1425.57	23.84
		2op	1556	1534.63	6.36	1548	1534.5	4.94	1544	1534.23	3.63	1531	1531	0
	50	rnd	1531	1498.43	18.26	1548	1521.3	10.63	1539	1521.53	11.65	1477	1421.37	24.48
		2op	1556	1535.67	8.11	1552	1538.47	7.16	1546	1536.83	5.13	1531	1531	0

Table A.834: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	993	850.53	62.1	1485	1414.3	47.31	1405	1300.97	65.41	1283	1173.2	58.46
		2op	1531	1531	0	1555	1533.9	6.69	1531	1531	0	1531	1531	0
	50	rnd	977	853	57.17	1485	1435.9	36.8	1450	1369.13	52.74	1352	1201.53	67.92
51	20	2op	1531	1531	0	1555	1537.87	8.81	1532	1531.03	0.18	1531	1531	0
		rnd	1018	863.83	49.85	1428	1228.47	85.19	1492	1382.17	55.57	1388	1268.3	50.8
	50	2op	1531	1531	0	1555	1534.8	7.01	1542	1531.63	2.44	1531	1531	0
	20	rnd	955	849.03	47.55	1361	1134.6	92.56	1492	1419.93	41.7	1372	1275.63	64.45
		2op	1531	1531	0	1548	1532.77	4.57	1555	1533.87	7.07	1531	1531	0
	50	rnd	955	849.03	47.55	1361	1134.6	92.56	1492	1419.93	41.7	1372	1275.63	64.45
	2op	1531	1531	1531	0	1548	1532.77	4.57	1555	1533.87	7.07	1531	1531	0

Table A.835: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1522	1485.77	21.88	1533	1510.47	10.07	1470	1429.47	21.45	1332	1268.67	25.6
		2op	1548	1532.3	4.33	1546	1532.4	3.64	1531	1531	0	1531	1531	0
	50	rnd	1534	1491.8	21.09	1533	1513.27	12.67	1510	1468.57	15.67	1375	1312	30.61
		2op	1549	1532.3	4.47	1541	1531.93	2.32	1531	1531	0	1531	1531	0
51	20	rnd	1539	1487.33	26.02	1536	1511.9	15.66	1530	1502.87	14.35	1511	1422.33	29.33
		2op	1556	1533.4	5.6	1548	1535.9	5.67	1549	1534.13	5.46	1531	1531	0
	50	rnd	1539	1500.37	21.75	1543	1519.8	13.31	1541	1519	11.72	1499	1424.97	27.7
		2op	1552	1533.87	5.04	1552	1536.5	6.11	1551	1536.83	6.2	1531	1531	0

Table A.836: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	961	857.97	52.56	1492	1403.93	51.76	1406	1311.23	51.73	1304	1178.23	58.79
		2op	1531	1531	0	1555	1533.23	5.64	1531	1531	0	1531	1531	0
	50	rnd	946	850.17	54.71	1504	1433.27	37.34	1426	1350.47	54.71	1357	1218.73	56.85
		2op	1531	1531	0	1555	1540.03	8.85	1531	1531	0	1531	1531	0
51	20	rnd	960	863.67	45.84	1443	1289.27	95.14	1493	1393.13	49.71	1359	1254.23	56.25
		2op	1531	1531	0	1555	1536.37	8.3	1546	1531.83	3.24	1531	1531	0
	50	rnd	1006	871.9	53.92	1315	1169.23	85.59	1477	1405.3	55.63	1421	1278.27	73.93
		2op	1531	1531	0	1555	1533.47	5.68	1550	1535.13	6.88	1531	1531	0

Table A.837: f_{50_412} : transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1520	1490.37	19.75	1543	1511.47	14.5	1446	1387.6	24.27	1205	1144.37	24.57
		2op	1552	1533.07	4.58	1548	1536.33	4.82	1531	1531	0	1531	1531	0
	50	rnd	1530	1506.87	15.38	1538	1515.1	13.99	1476	1395.1	33.3	1321	1221.33	44.34
		2op	1552	1535	7.01	1551	1534.47	5.46	1531	1531	0	1531	1531	0
51	20	rnd	1536	1503.03	14.35	1544	1526.07	9.94	1474	1439.7	15.16	1375	1335.93	18.62
		2op	1556	1539.97	7.5	1557	1552	4.79	1537	1531.43	1.38	1531	1531	0
	50	rnd	1538	1511.3	16.87	1538	1517.03	13.01	1480	1443.83	14.76	1414	1351.7	28.95
		2op	1556	1544.03	9.08	1556	1545.07	8.37	1531	1531	0	1531	1531	0

Table A.838: f_{50_412} : basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	986	907.57	37.21	1264	1199.77	28.31	1322	1240.37	33.18	1183	1098.23	33.44
		2op	1531	1531	0	1531	1531	0	1531	1531	0	1531	1531	0
	50	rnd	1043	909.63	43.25	1281	1214.17	33.16	1350	1290.17	31.09	1185	1127.9	32.68
		2op	1531	1531	0	1531	1531	0	1531	1531	0	1531	1531	0
51	20	rnd	1015	940.5	38.05	1144	1035.2	38.22	1341	1292.5	27.85	1303	1160.1	45
		2op	1531	1531	0	1531	1531	0	1531	1531	0	1531	1531	0
	50	rnd	1009	923.9	29.87	1118	1047.67	29.11	1383	1319.17	28.89	1223	1122.53	38.18
		2op	1531	1531	0	1531	1531	0	1531	1531	0	1531	1531	0

Table A.839: f_{50_412} : transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1524	1485.73	17.93	1518	1501.97	9.28	1475	1432.53	19.07	1384	1301.6	38.8
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1515	1491.27	15.27	1532	1506.6	9.42	1488	1462.07	13.44	1397	1336.83	34.21
51	20	rnd	1523	1492.83	14.57	1523	1506.93	9.67	1520	1501	9.56	1479	1442.17	17.48
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1528	1499.57	13.37	1537	1511.83	9.17	1542	1512.57	11.66	1469	1435.1	19.66
		2op	1549	1548.03	0.18	1549	1548.07	0.25	1549	1548.03	0.18	1548	1548	0

Table A.840: f_{50_498} : basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1073	895.53	55.38	1477	1413.1	44.09	1408	1328.33	52.66	1359	1223.87	58.18
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	991	891.53	51.27	1507	1439.9	35.25	1470	1370.3	50.85	1328	1247.3	41.12
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1036	927.43	53.51	1468	1290.57	81.78	1502	1406.27	48.9	1384	1281.57	49.4
	50	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	993	919.2	32.25	1393	1204.97	63.5	1486	1423.3	30.71	1339	1276.6	41.83
			1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0

Table A.841: f_{50_498} : transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1517	1488.37	14.79	1520	1499.73	8.6	1468	1429.97	22.16	1332	1286.53	24.72
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1527	1487.67	20.22	1529	1508.63	10.55	1477	1455.57	12.25	1393	1326.37	35.16
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1516	1490.1	14.55	1522	1504.03	9.69	1520	1499.93	11.74	1464	1434.33	16.39
	50	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1523	1494.77	13.58	1526	1512.33	7.13	1530	1512	8.49	1479	1428.97	21.26
			1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0

Table A.842: f_{50_498} : basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	997	897.67	47.55	1479	1415.03	48.09	1419	1344.27	38.09	1301	1203.8	48.49
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	993	885.97	47.94	1509	1457.67	28.77	1436	1355.37	45.05	1346	1232.2	63.2
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1019	916.43	47.74	1428	1265.7	84.23	1464	1398.43	41.73	1363	1286.17	50.37
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1015	923.8	55.16	1435	1205.2	74.45	1495	1428.67	43.27	1373	1288.83	47.74
		2op	1548	1548	0	1548	1548	0	1549	1548.07	0.25	1548	1548	0

Table A.843: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1521	1492.63	12.65	1546	1504.73	13.42	1464	1401.4	33.42	1228	1147.4	27.56
		2op	1548	1548	0	1549	1548.03	0.18	1548	1548	0	1548	1548	0
	50	rnd	1514	1494.73	12.77	1511	1498.53	7.81	1456	1413.93	24.35	1287	1225.53	34.97
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1526	1501.3	12.83	1539	1520.57	8.67	1483	1451.03	13.94	1380	1342.5	18.72
		2op	1549	1548.03	0.18	1549	1548.43	0.5	1548	1548	0	1548	1548	0
	50	rnd	1528	1508.3	9.07	1528	1508.47	10.46	1469	1446.13	10.93	1423	1356.57	30.76
		2op	1549	1548.07	0.25	1549	1548.07	0.25	1548	1548	0	1548	1548	0

Table A.844: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1045	959.1	35.95	1288	1235.53	26.27	1292	1241.27	25.73	1156	1100.53	30.42
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1050	961.7	40.19	1307	1250.67	24.2	1378	1297.43	31.52	1229	1150.8	29.08
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1079	984.3	44.14	1184	1114.1	31.12	1352	1295.07	24.93	1254	1171.57	38.06
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1058	996.53	28.87	1149	1112.67	20.27	1390	1326.57	35.51	1232	1157.37	36.81
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0

Table A.845: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2606	2550.7	26.01	2563	2511.07	26.63	2452	2363.2	47.06	2255	1965.67	92.19
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2632	2588.1	23.76	2623	2557.1	21.44	2517	2428	42.19	2280	2091.5	85.03
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2605	2562.47	25.86	2598	2577.67	12.82	2528	2477.17	30.22	2391	2285.97	39.23
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2644	2606.57	17.29	2614	2583.87	13.57	2561	2518.87	22.46	2486	2362.97	55.36
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.846: $f_{100.307}$: basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1456	1393.97	46.6	2040	1928.63	57.79	1858	1760.47	44.03	1687	1621.53	41.46
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	1513	1414.87	54.22	2188	2012.23	86.83	1967	1864.5	54.56	1756	1644.73	53.4
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	1534	1456.8	38.62	2069	1935.53	61.91	2039	1884.07	61.63	1887	1699.7	61.65
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	1506	1440.7	38.37	2046	1887.47	86.49	2100	1935.07	69.23	1826	1710.1	58.8
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.847: $f_{100.307}$: transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2608	2554.4	21.99	2565	2512.23	24.87	2463	2376.4	49.42	2134	1935.83	99.69
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2617	2583.2	18.69	2588	2551.6	16.94	2532	2416.03	47.15	2242	2097.9	73.81
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2617	2563.77	30.25	2612	2577.73	14.65	2552	2475.5	33.81	2391	2298.53	55.01
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2645	2604.33	21.11	2617	2583.77	15.48	2587	2515.83	26.46	2476	2364.27	53.18
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.848: $f_{100.307}$: basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1507	1406.63	54.7	2067	1939.97	72.34	1951	1770.97	62.76	1782	1612.73	54.72
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	1542	1411.37	45.88	2189	2014.2	81.07	1982	1842.97	62.66	1739	1641.13	56.31
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	1517	1440.4	49.4	2121	1945.33	83.11	2033	1879.73	69.78	1868	1713.57	63.14
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	1517	1446.2	57.93	2074	1915.47	96.89	2036	1941.83	57.76	1861	1729.33	56.44
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.849: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2609	2565.5	19.2	2593	2531.17	26.85	2486	2383.03	63.66	1942	1764.8	66.61
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2659	2606.03	19.87	2598	2543.87	22.88	2538	2419.53	48.35	2153	1968.53	85.68
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2625	2589.53	21.02	2648	2602.43	16.21	2570	2492.77	40.58	2261	2164.47	50.32
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2658	2613.33	20.06	2651	2584.97	20.28	2551	2488.83	29	2411	2281.83	54.99
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.850: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1524	1470.17	34.2	1784	1715.53	31.85	1809	1718.57	35.77	1556	1495.63	32.3
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	1543	1494.17	29.6	1856	1755.77	32.28	1948	1811.07	61.57	1603	1533.27	37.28
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	1555	1511.47	23.13	1631	1579.7	20.79	1918	1811.3	48.3	1691	1586.53	40.62
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	1544	1496.67	23.48	1646	1586.47	24.15	1917	1837.3	47.1	1683	1564.67	47.52
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.851: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2665	2618.33	26.06	2620	2576.6	27.33	2496	2408.03	63.33	2166	1963	95.42
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2706	2657.3	22.25	2666	2628.3	21.16	2590	2499.67	49.85	2315	2141.93	80.96
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2654	2607.93	26.14	2700	2653.23	21.16	2604	2526.07	34.14	2447	2321	76.41
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2706	2664.13	22.44	2692	2658.13	15.71	2666	2588	36.45	2518	2406.47	59.31
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.852: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1451	1332.4	46.95	2114	2003.2	63.64	1975	1815.2	77.35	1723	1574.7	81.73
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	1447	1351.2	36.94	2257	2078.6	101.6	1984	1871.7	63.25	1753	1621.23	74.64
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	1424	1352.83	38.07	2192	1976.43	107.72	2141	1943.97	81.41	1803	1691.9	78.79
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	1477	1356.63	40.08	2092	1910.8	98.61	2160	1992.07	89.07	1857	1704.17	70.2
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.853: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2679	2617.57	35.26	2632	2574.97	29.02	2489	2389.63	68.98	2119	1941.63	77.04
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2679	2649.63	18.93	2664	2625.4	19.67	2590	2466.43	53.95	2264	2114.43	79.75
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2674	2625	22.42	2690	2649.03	15.46	2611	2530.87	38.33	2467	2321	59.65
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2686	2659.33	18.04	2722	2660.93	16	2652	2578.3	29.01	2504	2394.07	62.75
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.854: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1430	1335.07	41.68	2101	1976.9	104.57	1894	1789.53	61.81	1719	1584.77	73.93
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	1484	1345.07	56.61	2264	2058.43	81.07	2000	1868.93	84.44	1773	1623.57	78.47
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	1414	1343.53	34.6	2228	1956	114.35	2056	1935.97	82.61	1783	1671	67.4
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	1419	1355.77	31.47	2161	1911.63	149.21	2085	1980.93	75.08	1943	1702	82.72
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.855: $f_{100.415}$: transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2698	2629.7	29.24	2678	2602.83	32.47	2491	2420.4	38.7	1919	1748.43	76.31
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2716	2665.47	26.56	2665	2614.87	26.14	2583	2463.57	49.47	2112	1981	68.96
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2699	2645.57	24.63	2744	2677.9	22.71	2640	2565.2	35.3	2272	2167.93	57.58
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2741	2676.23	22.6	2689	2654.7	21.72	2619	2556.2	40.18	2454	2314.57	69.3
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.856: $f_{100.415}$: basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1452	1386.83	29.61	1786	1685.73	40.83	1796	1723.3	34.51	1554	1488.5	35.02
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	1451	1397.13	24.58	1819	1723.57	39.19	1921	1818.43	50.35	1668	1542.9	47.27
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	1463	1400.77	30	1539	1498.83	23.03	1931	1830.4	51.91	1709	1602.6	48.97
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	1496	1408.23	28.47	1577	1506.87	27.65	2026	1887.9	69.76	1747	1580.03	69.82
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.857: $f_{100.415}$: transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2541	2492.4	23.97	2533	2468.43	29.87	2433	2285.77	68.19	1975	1882.7	58.17
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2580	2530.07	23.32	2552	2503.1	23.09	2473	2354.87	48.55	2145	2033.93	66.57
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
51	20	rnd	2569	2495.37	28.07	2553	2524	14.17	2510	2424.9	38.48	2363	2207.37	55.63
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2588	2536.9	22.18	2548	2530.97	12.21	2507	2463.47	26.25	2424	2296.37	53.15
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0

Table A.858: $f_{100.512}$: basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1490	1375.3	50.46	2213	2006.43	82.58	1947	1815.1	69.19	1813	1600.73	75.64
		2op	2696	2689.9	3.9	2695	2689.47	3.43	2687	2687	0	2687	2687	0
	50	rnd	1448	1371.87	42.69	2197	2057.93	68.05	1978	1903.27	51.19	1792	1667.33	76.33
		2op	2695	2690.03	3.83	2700	2693.47	3.32	2695	2687.27	1.46	2687	2687	0
51	20	rnd	1461	1383.6	40.83	2185	1977.53	98.45	2067	1931.8	74.3	1826	1724.5	62.71
		2op	2695	2691.03	3.93	2696	2692.47	3.08	2695	2688.27	2.52	2687	2687	0
	50	rnd	1456	1374.1	34.94	2141	1961.43	111.65	2161	1994.73	75.99	1960	1731.57	84.1
		2op	2695	2691.73	3.81	2696	2694.57	1.3	2696	2692.23	2.94	2687	2687	0

Table A.859: $f_{100.512}$: transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2539	2492.87	24.16	2527	2468.9	32.65	2421	2313.73	62.52	2073	1866.1	80.54
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2578	2516.2	25.44	2547	2497.97	18.32	2411	2348.53	44.59	2168	2042.57	80.05
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
51	20	rnd	2548	2492	24.87	2559	2520.67	17.28	2490	2415.43	32.45	2312	2225.4	50.75
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2585	2538.9	25.63	2567	2528.87	13.96	2510	2457.83	29.89	2378	2299.1	37.85
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0

Table A.860: $f_{100.512}$: basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1468	1366	40.97	2110	1990.47	65.91	1954	1828	70.72	1721	1610.9	59.62
		2op	2695	2689.63	3.39	2695	2689.07	3.07	2687	2687	0	2687	2687	0
	50	rnd	1524	1383.73	45.2	2248	2049.2	74.79	2030	1870.47	59.96	1757	1647.93	62.28
51	20	rnd	2695	2690.33	3.81	2696	2692.53	3	2693	2687.2	1.1	2687	2687	0
		2op	1476	1392.23	49.58	2159	2008.6	76.24	2085	1936.27	76.26	1908	1723.37	68.26
	50	rnd	2695	2690.47	3.85	2695	2692.8	2.85	2695	2688.57	2.99	2687	2687	0
	20	rnd	1462	1381.9	32.74	2193	1959.13	112.78	2098	1994.37	65.44	1857	1713.3	66.62
		2op	2695	2691.53	3.85	2695	2694.37	1.69	2696	2691.27	3.56	2687	2687	0
	50	rnd	2695	2691.53	3.85	2695	2694.37	1.69	2696	2691.27	3.56	2687	2687	0

Table A.861: $f_{100.512}$: transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2546	2505.83	21.67	2543	2477.4	30.09	2400	2316.03	56.3	1881	1718.4	71.87
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2579	2536.87	16.46	2528	2487.93	20.25	2486	2343.37	60.45	2055	1925.93	65.55
51	20	rnd	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
		2op	2549	2521.13	15.57	2588	2546.07	16.37	2513	2449.37	26.66	2267	2098.63	52.91
	50	rnd	2696	2689.77	3.57	2696	2690.2	3.4	2692	2687.17	0.91	2687	2687	0
	20	rnd	2567	2540.8	16.19	2574	2524.9	22.13	2491	2431.7	31.06	2331	2236.7	52.97
		2op	2696	2687.57	2.16	2696	2687.57	2.16	2687	2687	0	2687	2687	0
	50	rnd	2696	2687.57	2.16	2696	2687.57	2.16	2687	2687	0	2687	2687	0

Table A.862: $f_{100.512}$: basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1480	1427.8	31.29	1835	1736.53	36.75	1867	1710.1	49.18	1555	1478.47	32.55
		2op	2695	2691.43	3.8	2695	2689.57	3.37	2687	2687	0	2687	2687	0
	50	rnd	1494	1430.33	33.69	1910	1780.5	47.19	1910	1816.47	46.71	1595	1538.33	32.99
51	20	rnd	2695	2694.13	2.45	2695	2691	3.86	2695	2687.27	1.46	2687	2687	0
		2op	1506	1442.1	26.82	1671	1568.87	41.08	1874	1800.33	35.64	1703	1595.63	56.88
	50	rnd	2696	2692.83	3.34	2696	2693.4	2.8	2692	2687.27	1.05	2687	2687	0
	20	rnd	1503	1444.8	33.99	1621	1560.73	31.93	1955	1864.37	46	1688	1578.97	50.88
		2op	2696	2695.07	0.25	2695	2692.6	3.33	2695	2687.63	2.04	2687	2687	0
	50	rnd	2696	2695.07	0.25	2695	2692.6	3.33	2695	2687.63	2.04	2687	2687	0

Table A.863: $f_{100.512}$: transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15604	15361.03	118.29	14872	14619.97	138.68	12498	11753.3	416.88	8534	7764.53	497.13
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	15611	15355.6	155.49	15327	14978.53	173.81	13767	13115.53	359.54	10044	9171.97	463.61
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
51	20	rnd	15591	15342.7	141.37	15474	15181.3	141.6	14610	14005.47	222.92	11380	10515.6	433.36
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	15568	15294.53	142.89	15560	15216.9	152.3	15071	14546.57	292.09	12909	12053.8	444.16
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0

Table A.864: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	5541	5458.6	45.13	6943	6515.27	196.13	6369	5888.8	192.32	5609	5027.1	202.03
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	5546	5459.23	45.51	7152	6780.13	158.15	6739	6170.27	290.21	5939	5268.47	318.72
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
51	20	rnd	5553	5468.3	42.03	7194	6775.83	187.12	6729	6279.8	221.1	6189	5391.33	365.98
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	5580	5454.97	54.36	7132	6854.27	159.66	6869	6519.13	213.85	6383	5673.97	520.81
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0

Table A.865: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15730	15341.97	140.21	15232	14590.97	228.28	12813	11903.97	488.64	8393	7744.47	347.05
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	15754	15372.63	153.46	15383	14959.3	183.56	13618	13067.9	371.42	9870	9233.47	412.41
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
51	20	rnd	15580	15338.23	108.02	15416	15185.27	117.39	14631	14052.13	273.6	11396	10520.73	451.86
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	15673	15373.37	142.94	15523	15285.67	140.46	15189	14550.27	238.5	12855	11932.93	476.56
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0

Table A.866: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	5569	5459.8	50.58	6999	6469.77	217.28	6247	5871.63	169.26	5702	5057.97	234.9
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	5542	5466.77	42.47	7166	6749.23	205.72	6505	6020.77	309.37	5904	5273.43	319.51
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
51	20	rnd	5557	5471.83	44.39	7086	6783.67	147.76	6647	6254.63	172.61	6219	5490.07	403.08
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	5540	5446.47	51.06	7131	6837.67	139.44	6953	6444.93	306.19	6325	5525.33	424
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0

Table A.867: *f*508_354: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15635	15297.73	129.21	15617	15227.37	136.32	13175	12353.4	441.71	7945	7230.33	348.5
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	15629	15399.53	144.69	15568	15371.23	140.37	13772	13066.93	460	9240	8659.9	418.36
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
51	20	rnd	15639	15341.9	131.05	15639	15336.03	135.07	14775	14411.63	250.48	10413	9454.03	676.28
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	15713	15457.73	110.45	15713	15453.67	113.33	15120	14698.93	189.59	11885	10831.6	794.38
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0

Table A.868: *f*508_354: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	5608	5516.77	45.7	6158	5978.1	72.97	6020	5752.63	136.65	5089	4944.97	69.67
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	5632	5518.63	46.58	6373	6139.7	82.01	6459	6042.13	142.44	5455	5159.33	97.59
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
51	20	rnd	5626	5532.67	42.23	5693	5576.77	56.55	6499	6251.07	145.4	5497	5227.8	134.07
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0
	50	rnd	5598	5513.97	32.97	5734	5662.83	52.68	6577	6325.13	155.52	5512	5259.47	116.35
		2op	17766	17766	0	17766	17766	0	17766	17766	0	17766	17766	0

Table A.869: *f*508_354: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19225	19050.37	132.01	18427	17982.2	274.37	15036	14232.83	574.53	10025	9136.87	355.72
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	19369	19058.6	167.67	18655	18366.77	184.04	16594	15729.3	491.7	12472	11004.07	621.15
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
51	20	rnd	19349	19040.03	158.13	19079	18790.47	171.54	17613	17090.47	345.28	13887	12694.43	506.01
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	19274	19042.63	124.11	19191	18895.1	142.8	18412	17986.53	229.29	15298	14366.83	542.44
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0

Table A.870: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6802	6710	37.97	8333	7824.63	304.84	7626	7288.23	150.25	6478	6029.97	112.54
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	6822	6712.73	47.03	8540	8162.13	206.11	7628	7314.07	219.98	6373	6164.27	81.18
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
51	20	rnd	6795	6713.93	47.05	8513	8160.6	221.06	8150	7645.23	363.18	6439	6327.33	56.34
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	6827	6716.07	56.59	8782	8283.47	185.01	8308	7776.03	234.15	6512	6374.93	60.86
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0

Table A.871: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19325	19012	135.53	18726	17918.2	316.82	15079	14100.5	616.93	9751	9198.77	343.57
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	19483	19076.5	161.7	18720	18461.13	164.33	16726	15808.57	408.08	11669	10866.37	537.93
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
51	20	rnd	19240	18961	127.6	18907	18724.17	119.56	17790	17195.5	331.82	13366	12484.17	446.25
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	19306	19054.73	152.25	19186	18919.7	137.18	18506	17908.9	281.37	15701	14481.53	524.71
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0

Table A.872: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6799	6718.57	43.26	8281	7767.63	318.9	7563	7252.87	241.87	6137	6033.67	68.53
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	6800	6709.3	47.78	8583	8071.57	259.96	7765	7321.27	217.65	6342	6159.6	76.04
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
51	20	rnd	6825	6716.53	46.55	8489	8187.73	210.49	8043	7612.8	346.19	6496	6334.6	66.4
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	6816	6711.93	45.42	8504	8295.03	131.35	8234	7796.63	264.26	6511	6382.03	62
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0

Table A.873: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19287	18994.33	159.67	19192	18900.3	157.52	16093	15095.53	533.39	9329	8744.7	298.84
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	19289	19052.03	133.05	19190	18981.23	153.35	16294	15459.6	686.99	11213	10427.73	492.95
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
51	20	rnd	19343	19054.63	121.07	19343	19054.63	121.07	18159	17668.4	402.61	12353	11173.17	725.61
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	19348	19058.5	122.69	19348	19058.4	122.79	18466	18014.4	315.08	14070	12827.37	1016.38
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0

Table A.874: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6859	6765.27	34.56	7527	7198.7	119.84	7110	6928.8	102.08	6218	6048.97	82.97
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	6893	6775.27	41.97	7614	7391.77	90.67	7695	7316.9	143.7	6471	6226.7	109.96
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
51	20	rnd	6876	6778.8	49.03	6898	6803.1	55.26	7918	7500.7	161.73	6665	6383.97	132.07
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0
	50	rnd	6821	6765.53	33.81	7102	6873.7	77.31	7929	7653.47	180.94	6899	6468.63	167.94
		2op	22021	22021	0	22021	22021	0	22021	22021	0	22021	22021	0

Table A.875: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21621	21271.03	139.37	20414	19785.43	314.37	16387	15338.03	588.45	11229	10278.73	491.34
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	21706	21343.17	147.31	21028	20488.6	272.63	18420	17254.9	540.44	13030	11884.27	466.99
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
51	20	rnd	21510	21248.8	129.22	21238	20925.07	210.57	19542	18863.4	338.66	14781	13766.57	599.73
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	21605	21333.87	130.81	21489	21126.27	148	20456	19812	328.26	16661	15709	490.84
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0

Table A.876: $f737_355$: basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7904	7844.47	34.08	9135	8716	241.64	8658	7804.97	429.63	7239	7065.67	90.97
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	7959	7853.6	45.35	9476	9077.13	233.02	9032	8561.27	338.03	7361	7236.47	98.49
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
51	20	rnd	8014	7865.83	63.39	9547	9126.5	221.39	8771	8380.2	233.48	7591	7414.53	72.78
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	7934	7852.5	49.49	9732	9262.73	197.15	9346	8565.5	370.68	7567	7473.4	47.3
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0

Table A.877: $f737_355$: transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21474	21223.23	131.17	20407	19818.17	336.72	16704	15509	500.82	10855	10148.17	427.54
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	21739	21412.13	134.05	20903	20516.7	196.56	18135	17136.17	493.11	13038	11884.57	496.11
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
51	20	rnd	21492	21211.57	155.4	21334	20919.37	191.73	19457	18936.03	376.96	14916	13695.47	663.42
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	21484	21325.9	118.51	21339	21100.63	109.45	20345	19712.63	384.61	17037	15611.43	637.05
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0

Table A.878: $f737_355$: basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7926	7846.5	41.6	9188	8785.53	239.03	8601	7728.43	408.67	7223	7105.1	81.96
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	7954	7864.7	49.98	9431	9044.03	217.77	8844	8353.73	478.09	7411	7237.03	89.5
51	20	rnd	7982	7864.9	60.28	9586	9129.03	232.9	8824	8440.07	235.08	7560	7419.6	79
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	7960	7836.4	61.68	9711	9312.53	205.78	9230	8563.53	330.42	7598	7471.37	66.31
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0

Table A.879: *f737_355*: transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21405	21168.43	135.11	21314	21079.63	155.09	17359	16453.4	573.21	10351	9561.87	408.94
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	21563	21275.17	140.69	21538	21198.1	161.95	18244	17319.1	569.64	12513	11473.13	406.78
51	20	rnd	21425	21129.87	135.87	21425	21129.87	135.87	20118	19500.1	336.73	13589	12322.97	811.73
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	21517	21229.03	159.69	21517	21229.03	159.69	20555	19900.4	298.08	15873	13693.47	1255.91
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0

Table A.880: *f737_355*: basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7985	7909	37.13	8418	8218.6	100.71	8061	7735.33	152.31	7087	6973.4	72.1
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	8005	7919	44.95	8720	8419.47	99.29	8321	8012.93	192.73	7299	7177.67	53.89
51	20	rnd	8017	7922.7	40.49	8024	7921.3	44.32	8509	8127.9	186.43	7392	7302.17	34.92
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0
	50	rnd	7993	7898.63	35.79	8161	7974.47	71.14	8725	8307.9	243.93	7468	7341.1	71.46
		2op	24425	24425	0	24425	24425	0	24425	24425	0	24425	24425	0

Table A.881: *f737_355*: transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	40398	39788.93	175.1	37286	36355.03	622.02	27791	26132.3	975.49	18345	17443.53	504.26
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	40943	40571.6	168.75	38875	38019.93	535.64	31771	29913.63	1195.69	21821	20129.43	740.22
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
51	20	rnd	40256	39869	199.31	40186	39553.4	296.84	35274	33714.17	957.19	24542	22901.3	994.42
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	40783	40495.13	193.53	40544	40093.47	246.59	37612	36446.43	664.21	28919	26707.77	1122.24
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0

Table A.882: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14411	14306.63	64.81	16319	15051.93	321.53	13835	13692.5	90.24	13054	12864.4	121.05
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	14419	14285.2	68.36	16668	16064.03	316.25	14006	13822.93	90.97	13392	13119.23	138.93
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
51	20	rnd	14534	14317.53	82.42	17102	16186.73	399.15	16272	14650.8	916.39	13643	13489.27	106.7
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	14413	14273.63	70.67	17074	16445.87	366.94	16673	16163.17	580.1	13755	13533.6	133.51
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0

Table A.883: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	40044	39689.77	197.82	37486	36276.73	861.57	28312	26064.1	1082.8	18461	17159.87	597.61
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	40930	40536.1	222.81	38685	38038.3	519	31903	29662.53	1193.7	21471	20076.3	683.5
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
51	20	rnd	40269	39828	243.55	40266	39577.77	263	34979	33488.5	886.99	24555	23179.83	1039.96
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	40954	40539.5	194.68	40757	40165.2	240.29	37340	36102.7	819.71	28603	26763.47	769.74
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0

Table A.884: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14477	14316.23	86.57	16349	15101.43	343.23	13884	13688.5	85.49	13202	12864.5	119.09
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	14449	14320.3	72.09	17001	16119.13	453.18	13931	13807.47	69.07	13387	13141.73	138.03
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
51	20	rnd	14462	14318.9	72.84	16774	16175.7	385.83	16240	14553.03	921.25	13648	13479.17	100.84
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	14455	14253.23	74.04	17238	16468.17	318.42	16594	16141.53	446.95	13765	13526.87	116.26
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0

Table A.885: $f_{1343.354}$: transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	39458	38982.83	195.36	39458	38982.83	195.36	30046	28152.13	1116.03	17719	16646.93	571.97
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	39954	39550.03	189.74	39954	39550.03	189.74	33064	30061.47	1615.68	20542	19466.63	549.69
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
51	20	rnd	38729	38425.7	138.14	38729	38425.7	138.14	37210	35688.7	779.51	23494	20052.73	2046.09
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	38995	38573.63	209.58	38995	38573.63	209.58	37974	36891.2	475.7	26487	22339.9	2436.53
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0

Table A.886: $f_{1343.354}$: basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14526	14356.7	71.36	14603	14347.93	102.32	13821	13679.23	62.58	12911	12688.23	95.91
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	14592	14389.43	66.78	15589	15015.03	315.52	13979	13833.47	85.35	13244	13055.03	100.19
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
51	20	rnd	14453	14358.8	46.61	14453	14358.8	46.61	14150	14061.7	51.79	13455	13063.47	162.42
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0
	50	rnd	14417	14324.8	48.66	14477	14347.13	76.2	14650	14159.73	176.87	13538	13205.23	203.47
		2op	47336	47336	0	47336	47336	0	47336	47336	0	47336	47336	0

Table A.887: $f_{1343.354}$: transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46474	45927.63	276.23	43288	41997.53	826.25	31102	29334.4	1243.46	21820	19898.3	687.88
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
	50	rnd	47792	47166.13	208.36	45196	44391.3	448.52	37217	34424.43	1361.61	25136	22998.9	860.75
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
51	20	rnd	46351	46025.53	212.79	46351	45894.37	317.07	40684	38885.47	944.37	27955	26203.77	866.73
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
	50	rnd	47504	47117.7	221.9	47187	46799.73	278.02	43502	42079.53	846.92	33187	30492.87	1227.8
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0

Table A.888: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17024	16890.73	75.4	19082	18088.93	392.23	16352	16104.57	119.93	15446	15145.83	168.97
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
	50	rnd	17122	16928.93	102.62	19937	19096.13	856.96	16502	16335.2	107.35	15815	15576.67	133.21
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
51	20	rnd	17052	16893.73	80.62	19790	18746.07	536.36	16657	16485.47	96.55	16073	15895.83	107.85
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
	50	rnd	17035	16846.17	77.53	19741	19100.2	390.74	19415	16979.43	1015.59	16319	16021.1	125.27
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0

Table A.889: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46690	45908.57	234.08	42958	41725.37	784.85	31808	29845.93	1179.57	21655	19898.83	809.1
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
	50	rnd	47597	47005.77	240.76	45709	44033.57	649.46	35592	33521.77	1089.59	25406	23059.8	838.12
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
51	20	rnd	46389	46066.3	199.32	46389	45938.8	306.06	39793	38380.6	943.58	28352	26435.6	814.41
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
	50	rnd	47724	47137.47	226.35	47380	46895.63	233.01	43353	41936.07	722.52	32007	30312.73	1136.41
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0

Table A.890: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17090	16897.57	93.59	19045	18115.03	384.64	16392	16129.47	132.77	15360	15118.37	150.34
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
	50	rnd	17042	16898.87	84.95	19773	18404.4	980.44	16439	16261.53	97.97	15746	15438.63	164.51
51	20	rnd	17057	16891.77	77.31	19330	18568.27	296.29	16648	16473.73	92.76	16146	15911.4	128.02
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
	50	rnd	16968	16830.9	87.71	19968	19026.1	433.97	19368	16883.47	936.37	16168	15949.37	127.75
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0

Table A.891: f_{1577_354} : transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	45162	44734.33	239.56	45162	44734.33	239.56	34835	32286.77	1203.51	20241	19123.33	563.28
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
	50	rnd	45996	45470.13	269.11	45996	45470.13	269.11	37164	34060.3	1848.13	23433	22131.9	413.14
51	20	rnd	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
		2op	44234	43832.6	231.9	44234	43832.6	231.9	42554	40577.13	987.51	26635	23464	2275.9
	50	rnd	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
		2op	44624	44124.93	244.08	44624	44124.93	244.08	43619	42584.4	747.57	30373	25162	3008.72
			55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0

Table A.892: f_{1577_354} : basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17039	16920.83	80.17	17017	16873	82.5	16342	16142.07	109.46	15141	14929.57	155.06
		2op	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
	50	rnd	17114	16957.4	57.9	18426	17538.1	397.53	16430	16271.4	91.9	15549	15346.67	92.88
51	20	rnd	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
		2op	17074	16945.9	66.89	17074	16945.9	66.89	16733	16557.7	72.96	15649	15357.7	184.44
	50	rnd	55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0
		2op	17012	16866.93	58.61	17127	16869.93	80.55	16752	16564.2	71.65	15879	15392.93	213.68
			55561	55561	0	55561	55561	0	55561	55561	0	55561	55561	0

Table A.893: f_{1577_354} : transRRGA+IM – Suspected Optimal is 57373

Results With Post Optimization and No Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47286	47054.33	124.55	47270	47048.3	111.16	47274	47274	0	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	47238	47043	117.89	47269	47055.97	111.47	47274	47272.03	10.77	47274	47274	0
51	20	rnd	47333	47143.93	103.26	47339	47150.37	103.67	47392	47139.23	123.14	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	47262	47118.77	97.81	47278	47119.33	113.72	47356	47144.17	126.42	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0

Table A.894: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47328	47223.07	62.12	47343	47206.77	61.74	47394	47211.87	80.39	47344	47225.17	77.3
		2op	47367	47307.3	29.62	47359	47280.23	21.13	47274	47274	0	47274	47274	0
	50	rnd	47337	47228.8	72.62	47443	47284.9	62.51	47336	47210.63	75.73	47321	47177.3	66.83
51	20	rnd	47399	47329.33	29.56	47368	47305	30	47325	47275.7	9.31	47274	47274	0
		2op	47345	47230.7	74.53	47421	47308.03	53	47338	47206.13	72.12	47341	47208.73	87.12
	50	rnd	47395	47316.93	33.89	47412	47335.6	37.79	47365	47279.37	20.61	47274	47274	0
		2op	47322	47245.77	62.29	47442	47333.13	56.8	47386	47245.73	69.47	47359	47243.27	86.58
		2op	47401	47322.47	30.49	47430	47364.13	27.05	47344	47276.33	12.78	47274	47274	0

Table A.895: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47270	47088.13	102.88	47284	47078.87	131.36	47274	47274	0	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	47354	47059.07	131.45	47271	47086.77	126.83	47274	47253.6	67.1	47274	47274	0
51	20	rnd	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
		2op	47332	47124.53	85.24	47332	47125.33	87.53	47292	47149.57	78.18	47274	47274	0
	50	rnd	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
		2op	47278	47089.7	112.54	47286	47099.7	111.08	47358	47115.27	124.75	47274	47271.8	12.05
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0

Table A.896: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47329	47207.83	66.03	47344	47241.63	67.08	47365	47205.9	76.91	47429	47206.93	96.41
		2op	47390	47319.7	34	47360	47283.57	22.98	47274	47274	0	47274	47274	0
	50	rnd	47397	47227.57	51.81	47416	47268.07	77	47345	47172.8	89.31	47310	47174.8	86.64
51	20	rnd	47398	47334.07	34.58	47398	47314.33	38.84	47274	47274	0	47274	47274	0
		2op	47336	47248.33	61.89	47388	47310.8	47.3	47340	47203.67	70.03	47356	47180.4	112.18
	50	rnd	47377	47307.37	32.86	47414	47340.7	32.72	47357	47276.77	15.15	47274	47274	0
	20	rnd	47386	47252.1	59.59	47401	47337.93	43.3	47402	47253.6	67.49	47409	47242	77.51
		2op	47408	47322.27	35.97	47426	47366	25	47359	47283.93	22.75	47274	47274	0

Table A.897: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47303	47102.57	92.53	47310	47101.83	93.92	47274	47265.97	44	47274	47274	0
		2op	47348	47276.47	13.51	47348	47276.47	13.51	47274	47274	0	47274	47274	0
	50	rnd	47369	47154.4	118.78	47369	47155.13	117.53	47274	47252.83	55.15	47274	47274	0
51	20	rnd	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
		2op	47341	47220.13	53.08	47341	47219.53	53.68	47419	47229.07	92.89	47274	47274	0
	50	rnd	47378	47305.27	35.7	47378	47305.27	35.7	47274	47274	0	47274	47274	0
	20	rnd	47355	47254.1	53.59	47355	47250.27	57.53	47367	47186.63	76.51	47274	47274	0
		2op	47436	47307.5	48.11	47436	47307.43	47.99	47274	47274	0	47274	47274	0

Table A.898: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47320	47218.1	55.34	47355	47220.3	69.19	47354	47209.63	74.77	47362	47197.83	71.68
		2op	47371	47318.27	26.44	47366	47297.9	29.56	47274	47274	0	47274	47274	0
	50	rnd	47312	47240.9	47.77	47374	47220.6	66.15	47328	47223.47	65.37	47330	47211.03	88.71
51	20	rnd	47407	47336.87	31.21	47401	47315.2	35.65	47274	47274	0	47274	47274	0
		2op	47321	47211.33	57.26	47335	47205.57	61.88	47320	47183.97	72.58	47399	47213.5	87.51
	50	rnd	47381	47329.63	24.62	47371	47323.9	27.96	47313	47275.3	7.12	47274	47274	0
	20	rnd	47341	47257.03	50.53	47365	47237.67	71.29	47353	47243.83	70.32	47304	47183.93	91.43
		2op	47378	47330.37	20.52	47395	47308.5	31.46	47290	47274.53	2.92	47274	47274	0

Table A.899: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151224	150900.67	352	151256	151153.53	19.35	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151210	150940.8	284.93	151249	151037.9	283.29	151150	151150	0	151150	151150	0
51	20	rnd	151244	150961.13	315.84	151249	150890.43	369.07	151150	151147.2	15.34	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151254	151059.1	231.88	151295	151061.53	238.86	151227	151117.5	117.12	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.900: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151322	151152.63	125.35	151271	151147.33	116.02	151231	151110.33	160.91	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151254	151169.1	51.02	151291	151166.2	60.73	151255	151124.43	146.59	151171	151150.7	3.83
51	20	rnd	151279	151120.77	125.61	151216	151149.03	53.11	151291	151149.17	112.13	151228	151151.3	21.59
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151249	151138.93	45.97	151229	151160.2	48.91	151279	151161.67	53.54	151215	151086.2	177.9
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.901: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151275	151065.8	202.88	151245	151128.6	108.42	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151220	150989.1	280.14	151267	151039.07	309.08	151150	151150	0	151150	151150	0
51	20	rnd	151280	151023.7	289.64	151306	151071	235.96	151170	151129.17	117.94	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151233	151026.97	219.88	151237	151033.77	277.53	151172	151046.43	256.19	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.902: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151288	151139.57	118.36	151260	151139.43	113.88	151220	151145.6	28.64	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151272	151151.3	47.2	151237	151156.8	51.07	151226	151121.77	149.72	151150	151149.8	1.1
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151262	151142.3	117.27	151293	151153.13	64.68	151229	151087.33	184.83	151259	151153	34.39
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151236	151140.43	47.58	151249	151160.63	43.71	151273	151173.67	47.23	151223	151125.5	110.01
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.903: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151265	151105.13	188.01	151255	151095.3	202.53	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151266	151068.93	288.32	151227	150968.7	306.24	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151290	151109.23	210.85	151290	151112.23	210.97	151249	151105.17	170.81	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151228	151081.07	207.51	151235	151076.93	207.62	151266	151093.37	218.88	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.904: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151241	151159.63	44.85	151263	151159.03	49.54	151228	151133.9	107.77	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151266	151165.7	46.99	151217	151126.1	104.71	151297	151119.27	178.83	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151240	151146.23	49.16	151245	151157.07	45.82	151256	151169.07	57.18	151150	151149.27	4.02
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151299	151167.47	51.98	151259	151159.23	58.32	151222	151151.7	43.52	151295	151147.47	38.1
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.905: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167083	166465.67	294.78	166879	166513.23	271.97	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166980	166376	300.81	166903	166410.9	325.13	166520	166520	0	166520	166520	0
			2op	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167096	166520.43	344.98	166930	166509.13	287.68	166880	166536.73	153.41	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166921	166497.47	320.52	166768	166518.6	227.41	166911	166501.33	291.39	166520	166520	0
			2op	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.906: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167325	166955.17	205.51	167284	166868.83	248.66	167320	166836.37	259.86	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167309	166965.7	180.76	167416	167042.27	237.21	167304	166918.57	180.5	167256	166586.87	187.24
			2op	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167332	166960.43	228.42	167331	167031.3	182.67	167335	166817.03	263.63	167127	166653.47	228.62
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167363	166965.77	172.33	167351	167124.5	175.11	167282	166869.1	247.93	167235	166857.63	212.57
			2op	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.907: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166930	166544.23	300.66	166749	166470.63	256.37	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166976	166466.13	344.2	166876	166408	317.92	166520	166520	0	166520	166520	0
			2op	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	166952	166532.33	267.19	166967	166482.87	267.92	166751	166491.67	152.46	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166964	166578.67	336.85	167015	166527.3	314.2	166894	166541.67	217.32	166520	166520	0
			2op	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.908: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167387	166917.97	218.43	167216	166874.57	199.53	167287	166731.03	229.52	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167403	166940.03	232.47	167337	166942.97	216.17	167350	166823.83	198.99	167018	166578.4	143.63
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167395	166992.37	185.38	167318	167002.63	203.72	167292	166878.47	208.76	167126	166740	227.78
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167314	166955.27	193.81	167404	167183.33	141.43	167284	166907.6	217.01	167156	166867.97	194.35
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.909: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166934	166528.37	295.43	166921	166517.4	318.91	166773	166526.6	49.18	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167029	166545.23	326.64	166862	166544.97	217.39	166929	166544.03	81.85	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167068	166723.37	199.72	167124	166727.47	199.16	167149	166739.63	193.94	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167016	166713.73	187.05	167016	166715.1	187.35	166922	166696.03	179.51	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.910: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167318	167006.8	203.65	167301	166973.4	193.54	167368	166960.43	219.45	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167360	167025	183.2	167395	167012.03	227	167321	166876.83	170.75	166815	166529.83	53.86
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167330	167008.57	155.69	167315	167009.43	169.14	167234	166925.63	200.5	166974	166549.3	111.57
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167373	167032.73	199.07	167413	167015.2	192.34	167363	166940.4	227.5	167245	166841.43	222.73
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.911: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163097	162964.47	81.77	163080	162929.63	89.01	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163171	162939.33	118.26	163114	162934.1	84.08	163089	162980.57	50.75	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163106	162983.1	75.81	163120	162955.2	111.5	163086	162917.43	101.17	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163129	162970.5	111.37	163141	162953.2	108.07	163177	162928.1	105.23	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.912: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163162	162964	82.69	163168	162983	90.22	163195	162993.23	89.87	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163191	162980.97	85.15	163085	162956.7	69.52	163112	162984.5	79.44	163118	162973.13	71.26
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163151	162984.43	88.72	163150	163015.8	69.48	163093	162972.6	73.01	163182	162988.37	71.15
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163078	162971.73	65.78	163073	162981.23	66.59	163126	162949.43	92.28	163120	162980.43	70.72
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.913: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163070	162932.63	94.57	163100	162920.9	117.33	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163067	162925.13	113.67	163068	162937.23	102.08	163082	162960.2	81.58	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163120	162971.23	65.97	163085	162952.1	71.66	163092	162950.57	71.54	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163124	162945.23	109.16	163167	162943.3	86.03	163075	162940.57	108.62	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.914: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163148	162965.5	68.67	163119	162971.9	75.51	163068	162973.47	45.34	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163098	162965.7	64.09	163095	162948	70.81	163100	162993.53	71.77	163083	162990.17	29.74
51	20	rnd	163099	162990.73	76.52	163182	162995.73	73.74	163133	162968.67	70.55	163083	162969.97	56.31
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163155	162973.47	112.53	163103	162966.57	94.87	163093	162941.97	80.95	163116	162976.83	80.34
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.915: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163047	162938.13	99.39	163116	162950.73	91.84	163056	162912.03	86.1	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163075	162970.9	64.49	163101	162944.57	78.29	163081	162948.13	78.24	162988	162988	0
51	20	rnd	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163043	162914.07	85.06	163043	162914.07	85.06	163047	162929.43	100.07	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.916: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163134	162978.3	80.52	163117	162984.67	79.61	163118	162947.5	78.29	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163124	162973.1	87.98	163093	162997.8	56.61	163144	162984.17	77.96	163065	162961.67	114.09
51	20	rnd	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163161	162984.13	75.67	163133	162975.77	66.1	163154	162991.3	82.11	163104	162981.7	36.81
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.917: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179812	179677.5	88.01	179815	179690.97	76.49	179607	179607	0	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179878	179699.8	92.46	179860	179671.17	101.55	179839	179625.2	78.25	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179922	179737.67	99.98	179841	179684.13	97.48	179856	179686.1	79.61	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179874	179707.1	86.07	179970	179709.27	120.48	179901	179686.87	90.38	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.918: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179884	179702.27	91.18	179868	179681.67	88.27	179865	179629.23	78.58	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179973	179737.87	97.25	179892	179717.17	94.65	179862	179682.43	102.86	179822	179620.43	44.13
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179881	179721.77	85.33	179893	179678.23	111.08	179921	179699.43	100.01	179866	179653	86.12
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179846	179703.67	74.2	179961	179702.6	121.55	179869	179711.2	73.49	179975	179703.97	96.23
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.919: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179843	179698.07	83.7	179907	179688.4	91.56	179607	179607	0	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179870	179732.7	74.4	179892	179698.73	85	179872	179655.6	71.1	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179927	179724.2	85.27	179900	179686.1	111.9	179888	179681.8	86.82	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179833	179681.07	92.49	179848	179702.13	84.07	179920	179682.33	85.62	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.920: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179865	179702.3	101.36	179891	179687.47	96.02	179937	179673.83	102.83	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179885	179702.5	87.81	179920	179702.07	87.97	179898	179707.27	87.84	179734	179615.7	53.58
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179913	179738.73	87.62	179952	179730.4	92.83	180023	179712.1	102.42	179785	179645.03	55.96
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179949	179706.1	104.97	179836	179674.03	89.98	179931	179711.4	82.88	179932	179705.83	98.77
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.921: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179816	179685.17	86.78	179882	179677.47	89.57	179828	179676.57	87.56	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179901	179693.7	103.67	179958	179710.83	110.59	179872	179665.33	94.3	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179879	179695.03	85.52	179879	179695.03	85.52	179858	179678.13	98.57	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179916	179710.17	93.31	179916	179710.17	93.31	179827	179686.13	90.2	179642	179609.13	8.16
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.922: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179831	179719	80.84	179996	179707.37	90.83	179910	179710.17	85.27	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179854	179739.67	62.47	179911	179696.83	124.46	179854	179703.67	89.17	179759	179612.07	27.75
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179843	179709.4	89.13	179841	179686.77	81.47	179959	179708.97	82.57	179733	179613.83	26.73
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179845	179687.6	85.28	179877	179694.7	102.34	179952	179712.87	103.4	179879	179657.97	76.54
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.923: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343090	342627.93	408.14	342763	342763	0	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343130	342584.93	446.18	342835	342694.9	241.36	342763	342763	0	342763	342763	0
51	20	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
		2op	343107	342631.63	402.65	343032	342629.67	374.91	342763	342763	0	342763	342763	0
	50	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	20	rnd	342996	342643.97	288.44	343092	342626.77	384.89	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.924: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343123	342867.97	134.26	343158	342851.93	215.75	343012	342805.37	114.07	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343171	342878.6	134.05	343131	342833.07	243.58	343099	342755.8	290.48	342763	342763	0
51	20	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
		2op	343011	342846	122.13	343203	342882.63	168.5	343022	342814.7	173.26	342915	342771.93	34.32
	50	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	20	rnd	343120	342896.7	96.94	343118	342872.3	137.17	343084	342881.3	179.5	343110	342726.5	234.13
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.925: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343093	342585.37	392.07	342763	342763	0	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343091	342580.7	393.26	342861	342717.93	190.04	342763	342763	0	342763	342763	0
51	20	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
		2op	343064	342596.8	428.76	343168	342543.17	452.8	342763	342763	0	342763	342763	0
	50	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	20	rnd	343111	342806	235.38	343034	342764.27	252.67	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.926: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343109	342870	117.2	343163	342796.17	306.15	343051	342799.57	106.84	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343100	342903.2	107.83	343049	342828.03	216.63	343173	342797.07	225.63	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343049	342871.6	102.32	343156	342873.77	154.27	343126	342818.87	208.11	343007	342786.9	66
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343181	342884.13	133.46	343066	342787.4	276.02	343136	342845.23	256.17	343090	342820	223.44
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.927: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343140	342504.6	458.31	343140	342511.6	464.4	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342994	342546.4	432.62	342994	342524.03	428.31	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343079	342748.17	305.22	343079	342748.17	305.22	343067	342714.33	229.44	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343074	342683	321.63	343074	342683	321.63	343073	342567.6	373.35	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.928: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343125	342898.8	104.66	343129	342886.23	152.23	343091	342732.27	283.51	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343147	342945.97	91.11	343169	342926.93	94.31	343118	342760.43	244.79	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343118	342905	141.81	343092	342881.43	154.54	343208	342836.2	264.59	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343114	342874.8	108.34	343126	342884.17	100.63	343089	342893.83	133.37	342936	342760.27	70.6
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.929: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226996	225497.37	835.16	226232	225417.97	617.72	226732	225243.57	791.22	226468	225211	738.34
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	227264	225345.53	793.51	226685	225411.77	681.01	226798	225190.73	780.58	227269	225514.2	941.39
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
51	20	rnd	226415	225618.3	500.43	226633	225497.7	739.51	226681	225059.1	878.83	226622	225269.9	790.65
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226770	225514.73	617.17	227096	225392.13	817.39	226665	225187.33	666.87	226606	225125.97	887.35
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0

Table A.930: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226223	225146.3	706.13	226756	225249.67	895.19	226217	224996.4	643.26	226451	225242.47	790.03
		2op	226435	225692.5	250.67	226609	225591.47	226.61	225517	225517	0	225517	225517	0
	50	rnd	226629	224966.53	876.61	226304	225159.87	611.93	226616	225261.5	622.12	227086	225248.2	898.4
		2op	226415	225765.93	282.23	226281	225709.87	276.35	225517	225517	0	225517	225517	0
51	20	rnd	226717	225011.93	778.71	226523	225191.5	604.25	226529	225150.3	700.12	226476	225048.53	676.18
		2op	226364	225742.3	325.1	226698	226053.63	403.4	226370	225592.23	228.89	225517	225517	0
	50	rnd	226542	225019.7	902.9	227430	225435.2	834.72	226510	225319.83	825	226693	225005.33	850.79
		2op	226768	225740.7	388.93	226610	226198.87	228.9	226537	225579.07	284.59	225517	225517	0

Table A.931: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226800	225637.37	683.45	226883	225426.57	684.01	226884	225486.57	681.11	226456	225038.6	690.35
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226436	225362.17	671.57	226792	225280.23	848.65	226874	225221.33	865.92	226134	225097.23	671.09
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
51	20	rnd	226995	225515.9	767.23	226910	225464.63	742.02	227383	225321.47	647.89	226387	224877.07	969.09
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226858	225455.57	728.53	226335	225388.67	572.2	226785	225252.7	838.63	226633	225154.33	873.97
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0

Table A.932: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226793	225139.63	1001.81	226537	225078.2	852.16	227010	225286.23	869.92	226654	225032	824.1
		2op	226736	225879.97	351.65	226291	225677.63	264.55	225517	225517	0	225517	225517	0
	50	rnd	226635	225297.83	592.26	226531	225231.33	670.52	227570	225494.2	831.67	226312	224948.63	929.61
51	20	rnd	226844	225861.63	326.95	226879	225775.93	391.87	226233	225540.87	130.72	225517	225517	0
		2op	226733	225230.2	829.31	226558	225145.87	625.6	227135	225109.67	734.67	226609	224999.33	851.49
	50	rnd	226624	225759.37	343.29	226690	225967.23	363.35	226840	225565.07	241.63	225517	225517	0
	20	rnd	226840	225052.83	919.62	226399	225157.37	848.99	226733	225232.13	824.8	226723	225197.03	752.23
		2op	226314	225776.33	291.33	226599	226212.7	236.64	226512	225692.87	304.03	225517	225517	0

Table A.933: *bx842596.4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226411	225509.9	611.81	227184	225360.33	701.71	226376	225252.13	637.37	226380	225086.17	767.64
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226950	225330.77	803.07	226046	225025.4	598.59	226885	225224.7	760.07	226501	225059.43	923.67
51	20	rnd	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
		2op	227217	225389.1	844.1	226745	225318.77	771.54	226836	225393.53	683.59	226772	225165.97	702.34
	50	rnd	226912	225735.83	370.24	226912	225735.83	370.24	225517	225517	0	225517	225517	0
	20	rnd	226993	225406.03	685.1	226268	225365.33	641.8	226708	225196.6	763.07	226709	225336.23	651.35
		2op	226586	225651.33	295.36	226586	225651.33	295.36	225517	225517	0	225517	225517	0

Table A.934: *bx842596.4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226265	225139.13	907.65	226527	225163.07	818.68	226664	225134.2	705.25	226698	224937.13	928.79
		2op	226619	225921.17	361.33	226611	225848.3	399.77	225517	225517	0	225517	225517	0
	50	rnd	226916	225157.43	794.01	226946	225065.6	977.93	226991	225203.4	759.85	226308	225023.83	788.33
51	20	rnd	226297	225872.63	313.82	226824	225974.77	345.74	225517	225517	0	225517	225517	0
		2op	226598	225027.33	925.99	226337	225214.07	629.37	226484	225193.8	721.83	226480	225165.97	649.12
	50	rnd	226887	226049.43	346.07	226887	226071.17	350.85	226601	225643.23	286.56	225517	225517	0
	20	rnd	227229	225087.67	730.38	226317	224829.8	833.71	226318	224949.2	814.2	226531	225310.23	714.46
		2op	226424	225893.7	323.94	226404	225992.37	282.95	226181	225632.73	237.05	225517	225517	0

Table A.935: *bx842596.4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441145	438926.53	1276.86	440158	438691.07	1047.55	440394	438436.23	1329.59	440646	438355.07	1545.38
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	442381	439450.37	1290.37	440344	438574.67	1034.78	440614	438473.77	1252.12	440874	438311.43	1338.47
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
51	20	rnd	440865	438524.87	1238.74	440406	438849.27	1044.33	440790	438350.3	1011.71	440361	438273.67	1262.72
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	440822	438747.67	1114.99	441795	439248.7	1163.72	440309	438738.37	1125.23	440197	438220.8	1002.45
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0

Table A.936: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440918	438629	1318.13	441469	438664.9	1332.21	442079	438477.23	1231.64	441312	438675.77	1234.51
		2op	438680	437898.77	407.68	438642	437497	284.6	437398	437398	0	437398	437398	0
	50	rnd	440961	438194.43	1246.16	440185	438430.83	1093.63	440555	438831.67	1175.19	440145	438339.8	1030.8
		2op	438887	437776.27	381.84	438278	437560.6	288.92	437398	437398	0	437398	437398	0
51	20	rnd	440731	438155.2	1211.97	440331	437968.07	1240.61	440297	438560.2	1280.21	440544	438110.77	1305.49
		2op	438599	437765.77	375.07	438735	437604.47	363.02	437775	437410.57	68.83	437398	437398	0
	50	rnd	440419	438128	1275.49	441245	438556.2	1341.44	440917	438656.43	1118.17	441191	438825.5	1259.97
		2op	438507	437879.73	308.96	439035	437880.13	425.06	438297	437455.4	218.67	437398	437398	0

Table A.937: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441097	438985.7	1086.28	440595	438590.1	1274.51	440863	438490.27	1225.79	440676	438381.8	1197.4
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	440779	438685.47	1240.31	441734	438654.8	1232	440772	438543.47	1177.38	440469	438434.07	989.61
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
51	20	rnd	440729	438986.47	1084.19	441130	438775.23	1305.78	441451	438822.17	1403.64	440889	438600.53	1244.5
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	441958	439020.67	1078.66	441393	439279.3	1106.29	441119	438669.53	1252.27	440396	438418.2	1077.26
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0

Table A.938: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441351	438668.23	1013.9	440984	438451.27	1320.04	440118	437911.5	1366.12	440021	438344.5	1234.66
		2op	438989	437979.8	477.85	438417	437454.47	219.59	437398	437398	0	437398	437398	0
	50	rnd	440850	438402.37	1208	441680	438671.1	1321.64	441063	438393.83	1376.42	440051	437912.63	1163.38
51	20	rnd	438962	438031.43	425.33	438971	437554.67	387.13	437398	437398	0	437398	437398	0
		2op	441685	438500.1	1376.79	440565	438375.43	1277.26	440377	438126.37	1154.28	440247	437981.77	1429.8
	50	rnd	438548	437765.37	382.13	439390	437702.33	490.22	438357	437429.97	175.09	437398	437398	0
	20	rnd	441622	438744.37	1111.44	440908	438393.37	1245.36	441200	438677.77	1105.43	439938	437871.27	1325.81
		2op	438576	437859.53	307.65	438527	437628.3	339.94	437825	437412.23	77.96	437398	437398	0

Table A.939: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441453	439012.43	1283.58	441181	439192.07	1288.63	441532	438532.9	1635.93	441010	438329.03	1551.12
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	441049	438757.53	1158.59	441049	438776.97	1087.1	440169	438402.27	1285.38	440042	438236.13	1041.71
51	20	rnd	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
		2op	440953	439197.2	927.65	440953	439197.2	927.65	441367	438379.4	1543.8	440312	438623.57	1300.69
	50	rnd	439393	437551.2	479.58	439393	437551.2	479.58	437398	437398	0	437398	437398	0
	20	rnd	441453	438885.6	1286.99	441453	438885.6	1286.99	441712	439081.93	1128.11	440590	438385.07	1244.08
		2op	439642	437609	645.91	439642	437609	645.91	437398	437398	0	437398	437398	0

Table A.940: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440597	438306.7	1310.83	440494	438604.3	967.29	441978	438503.93	1117.13	440304	437982.37	1291.64
		2op	438481	437936.3	316.67	438481	437751.67	340.4	437398	437398	0	437398	437398	0
	50	rnd	440755	438672.93	1195.54	441008	438401.87	1613.41	441365	438503.73	1436.87	441129	438344.37	1304.22
51	20	rnd	438750	438070.27	360.37	438533	437920.2	356.93	437398	437398	0	437398	437398	0
		2op	440678	438520.93	1154.36	440678	438653.67	1209.19	440925	438557.57	1344.76	440166	438301.8	929.55
	50	rnd	439240	437945.6	372.02	438664	437881.3	306.67	437398	437398	0	437398	437398	0
	20	rnd	440295	438395.97	1224.45	441003	438410.57	1413.13	441429	438650.3	1323.07	440472	438328.1	1180.34
		2op	438806	437967.03	330.47	438989	437950.27	369.01	438193	437440	165.61	437398	437398	0

Table A.941: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115741	114802.93	434.43	115993	114811.83	506.51	115744	114827.03	664.09	115808	114876.57	555.67
		2op	115851	115525.23	61.53	115514	115514	0	115514	115514	0	115514	115514	0
	50	rnd	115994	115026.07	562.12	115873	115188.57	458.97	116177	114914.37	609.54	115754	114670.17	543.26
51	20	rnd	115833	114958.93	501.25	115851	114896.1	414.29	115725	114907.03	580.6	115753	114843.43	563.73
		2op	115782	115531.27	65.75	115782	115522.93	48.93	115514	115514	0	115514	115514	0
	50	rnd	115952	114948.67	541.85	116124	114938.4	570.57	115735	114860.03	496.8	115490	114664.33	445.38
		2op	115514	115513.97	0.18	115514	115514	0	115514	115514	0	115514	115514	0

Table A.942: $j02459_7$: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115876	114810.13	502.7	115553	114666.33	450.23	116248	114811.33	564.26	115420	114584.37	517.36
		2op	116327	115525.47	221.84	115802	115485.33	151.71	115514	115514	0	115514	115514	0
	50	rnd	115431	114772.17	426.02	115621	114661.17	423.71	115768	114871.47	532.51	115601	114849.4	560.44
51	20	rnd	115767	115456.6	186.34	116023	115537.6	200.88	115547	115501.8	72.39	115514	115514	0
		2op	115953	114696.83	655.13	115653	114806.33	595.07	115619	114648.23	488.37	115930	114819.53	502.83
	50	rnd	115633	115437.33	123.2	115893	115570.1	177.56	115633	115411.53	142.09	115514	115514	0
		2op	115690	114774.6	475.75	115402	114728.9	437.08	115654	114830.5	497.95	115717	114705.07	560.4
		2op	115803	115507.73	142.89	116424	115750	237.71	115858	115508.63	147.62	115514	115514	0

Table A.943: $j02459_7$: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115817	115065.97	514.33	115626	114797.73	527.07	115976	114843.4	494.71	115737	114668.2	426.4
		2op	115514	115514	0	115514	115514	0	115514	115514	0	115514	115514	0
	50	rnd	115839	115173.83	459.92	115614	114912.83	433.06	115983	114694.33	569.27	115778	114784.53	549.5
51	20	rnd	115514	115514	0	115514	115514	0	115514	115514	0	115514	115514	0
		2op	116009	115007.27	459.63	115725	114895.03	557.38	115956	115033.4	587.18	115713	114743.93	547.53
	50	rnd	115514	115514	0	115514	115514	0	115514	115514	0	115514	115514	0
		2op	116139	114960.07	551.69	116308	115073.63	551.94	116026	115037.17	433.96	115847	114729.2	467.54
		2op	115864	115525.67	63.9	115514	115514	0	115514	115514	0	115514	115514	0

Table A.944: $j02459_7$: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115650	114856.67	517.37	115592	114918.4	501.3	115774	114999.83	392.1	115283	114585.63	557.15
		2op	115647	115496.53	132.75	115690	115491.97	110.25	115514	115510.53	18.99	115514	115514	0
	50	rnd	115678	114754.07	457.41	115604	114849.77	502.5	115742	114600.03	499.21	115724	114705.97	525.73
51	20	rnd	116039	115483.67	209.74	116035	115553.33	242.13	115670	115509.27	79.91	115514	115514	0
		2op	115911	114853.5	617.63	115789	114763.07	538.52	115503	114763.7	509.22	116175	114743.03	640.99
	50	rnd	115933	115472.4	181.3	116399	115691.43	283.42	115654	115493.9	105.78	115514	115514	0
	20	rnd	115862	114884.67	534.74	115233	114636.3	490.59	115908	114864.9	572.34	115851	114823.7	513.33
		2op	116025	115445.3	202.6	116438	115787.1	169.6	116023	115499.03	162.76	115514	115514	0

Table A.945: $j02459_7$: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115844	114891.23	507.18	116029	115064.87	523.77	115682	114727.33	433.13	115682	114816.4	533.12
		2op	116239	115545.9	194.11	116026	115534.57	124.3	115514	115514	0	115514	115514	0
	50	rnd	115434	114776.6	384.15	115661	114869.97	478.05	115645	114961.23	392.1	115617	114781.03	453.88
51	20	rnd	115514	115490.77	85.48	115514	115490.37	85.79	115514	115514	0	115514	115514	0
		2op	115836	115034.53	432.45	115836	114975.8	408.29	115990	115012.53	501.07	115913	114669.37	709.08
	50	rnd	116111	115453.37	253.39	116111	115447.67	257.91	115514	115514	0	115514	115514	0
	20	rnd	115996	115006.17	435.82	115996	115095.73	564.14	116207	115136.37	599.75	116174	114855.43	727.06
		2op	116422	115769.33	311.02	116422	115770.43	308.72	115514	115514	0	115514	115514	0

Table A.946: $j02459_7$: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115900	114858.97	368.14	116164	114863.5	560.47	115381	114658.13	463.67	115460	114632.77	620.94
		2op	116308	115499.63	210.59	115749	115446.73	144.04	115514	115514	0	115514	115514	0
	50	rnd	115594	114770.57	422.58	115638	114576.8	579.79	115831	114763.43	480.57	115837	114792.47	608.15
51	20	rnd	115696	115465.33	175.89	116004	115482.43	191.98	115514	115510.93	11.72	115514	115514	0
		2op	115953	114822.57	515.73	115811	114853.13	556.89	115365	114724.63	473.9	115856	114623.7	539.41
	50	rnd	115807	115469.73	181.43	116333	115487.5	232.12	116077	115469.37	180.16	115514	115514	0
	20	rnd	115716	114664.47	643.39	115698	114815.43	605.18	115592	114641.5	534.9	115604	114842.9	548.75
		2op	116052	115504.73	217.93	115771	115431.47	162.07	115645	115487.77	81.48	115514	115514	0

Table A.947: $j02459_7$: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38534	38280.97	159	38522	38256.27	153.44	38593	38210	160.23	38526	38147.33	234.82
		2op	38408	38236.07	45.93	38389	38229.5	30.12	38224	38224	0	38224	38224	0
	50	rnd	38578	38297.57	167.63	38618	38260.77	230.09	38548	38232.3	196.14	38534	38166.03	215.66
51	20	rnd	38415	38237.8	44.39	38414	38232.2	35.82	38224	38224	0	38224	38224	0
		2op	38496	38183.53	222.2	38617	38204.2	198.91	38591	38270	204.43	38586	38250.1	226.13
	50	rnd	38432	38278.6	85.69	38437	38337.03	84.01	38417	38230.43	35.24	38224	38224	0
	20	rnd	38567	38272.83	196.64	38623	38285.43	168.45	38613	38303.53	192.07	38638	38231.23	194.55
		2op	38440	38309.37	87.4	38436	38337.17	81.47	38407	38235.13	42.58	38224	38224	0

Table A.948: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38492	38181.7	174.35	38482	38151.33	220.5	38581	38256.53	240.69	38531	38211.8	225.03
		2op	38414	38356.17	71.46	38437	38410.57	8.83	38557	38305.23	109.24	38224	38224	0
	50	rnd	38559	38177.03	217.62	38527	38146.4	249.88	38580	38145.57	279.67	38588	38197.73	176.85
51	20	rnd	38409	38379.63	50.95	38442	38424.57	14.6	38524	38401.57	39.38	38224	38224	0
		2op	38566	38237.77	221.91	38579	38226	225.57	38577	38175.67	258.74	38580	38151.07	275.96
	50	rnd	38414	38369.17	65.12	38442	38424.17	14.63	38418	38403.77	10.63	38409	38259.93	73.25
	20	rnd	38681	38195.47	232.31	38656	38256.27	228.08	38677	38202.77	223.89	38542	38224.7	201.97
		2op	38409	38374.03	55.09	38442	38430.27	14.18	38529	38411.7	23.79	38519	38324.87	92.83

Table A.949: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38584	38249.13	199.44	38570	38262.9	191.95	38664	38205.2	221.54	38537	38174.77	228.22
		2op	38224	38224	0	38224	38224	0	38224	38224	0	38224	38224	0
	50	rnd	38432	38164.63	185.73	38580	38264.8	208.7	38527	38260.43	181.29	38518	38177.9	242.61
51	20	rnd	38224	38224	0	38445	38231.37	40.35	38224	38224	0	38224	38224	0
		2op	38612	38226.03	216.74	38567	38266.13	198.58	38462	38174.57	204.65	38546	38122.67	249.77
	50	rnd	38424	38309.93	85.15	38436	38328.9	84.37	38419	38230.5	35.6	38224	38224	0
	20	rnd	38567	38258.83	157.95	38546	38243	220.08	38590	38208.23	181.86	38492	38210.7	199.32
		2op	38445	38287.1	88.31	38504	38354.2	72.47	38417	38244.07	54.19	38224	38224	0

Table A.950: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38658	38232.1	192.45	38647	38221.33	209.93	38567	38128.33	284.34	38686	38216.17	224.51
		2op	38413	38366	68.07	38441	38412.87	13.73	38441	38271.2	80.57	38224	38224	0
	50	rnd	38485	38125.9	236.6	38649	38198.93	234.3	38563	38228.93	232.99	38619	38200.03	248.5
51	20	rnd	38413	38368.3	65.65	38442	38420.2	13.72	38524	38397.07	37.54	38224	38224	0
		2op	38506	38181.87	241.99	38606	38193.7	227.19	38567	38175.6	222.14	38486	38199.9	182.12
	50	rnd	38436	38368.4	67.02	38442	38420.1	13.62	38432	38405.97	13.59	38411	38253.03	66.24
	20	rnd	38657	38170.27	250.78	38601	38188.2	218.95	38539	38183	231.85	38633	38182	226.91
		2op	38414	38367.3	65.2	38442	38428.23	13.02	38437	38412.03	14.01	38530	38312.9	101.16

Table A.951: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38642	38288.7	197.11	38575	38280.47	186.83	38663	38206.67	240.09	38655	38185.2	221.33
		2op	38431	38367.97	68.86	38430	38357.9	71.19	38224	38224	0	38224	38224	0
	50	rnd	38629	38275.93	181.16	38612	38306.03	196.56	38626	38201.47	211.23	38626	38210.33	195.38
51	20	rnd	38437	38352.17	80.46	38437	38343.33	85.4	38224	38224	0	38224	38224	0
		2op	38573	38232.2	172.52	38508	38232.8	196.44	38652	38240.07	190.26	38573	38214.4	188.94
	50	rnd	38437	38415.17	14.12	38442	38436.83	6.59	38437	38329.2	88.75	38224	38224	0
	20	rnd	38555	38265.07	192.25	38639	38242.57	210.66	38515	38185.77	214.42	38491	38106.53	239.65
		2op	38442	38424.2	14.5	38442	38428.6	13.57	38418	38312.43	90.26	38224	38224	0

Table A.952: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38650	38217.73	214.76	38527	38198.97	239.34	38634	38120	245.46	38612	38185.97	238.01
		2op	38409	38402.53	8.87	38418	38402.8	9.69	38436	38296.5	90.8	38224	38224	0
	50	rnd	38615	38230.7	214.57	38527	38192.7	229.25	38535	38181.13	200.91	38571	38214.37	238.86
51	20	rnd	38409	38404.77	7.61	38409	38403.7	8.57	38427	38333.67	85.76	38224	38224	0
		2op	38569	38176.37	201.59	38522	38169.8	223.64	38636	38202.5	271.77	38553	38152.83	229.71
	50	rnd	38437	38407.93	9.59	38437	38408.43	9.44	38432	38392.97	21.63	38224	38224	0
	20	rnd	38528	38158.7	234.41	38513	38258.53	202.08	38566	38171.5	241.5	38687	38171.97	260.43
		2op	38432	38408.87	4.76	38437	38406.97	8.14	38413	38385.47	45.83	38432	38247.33	61.02

Table A.953: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47921	47585.67	234.12	47846	47537.33	229.16	47961	47547.23	337.94	47899	47546.2	261.82
		2op	47349	47349	0	47349	47349	0	47349	47349	0	47349	47349	0
	50	rnd	48034	47613.93	270.9	47894	47522.63	265.52	47917	47464	316.18	47862	47600.7	190.43
		2op	47731	47374.47	96.92	47349	47349	0	47349	47349	0	47349	47349	0
51	20	rnd	47870	47556.03	230.7	47843	47543.93	289	47905	47584.07	210.88	48023	47503.47	271.02
		2op	47801	47492.67	189.47	47801	47477.73	182.87	47349	47349	0	47349	47349	0
	50	rnd	47887	47594.67	177.54	47897	47577.47	208.21	47998	47554.73	238.16	47849	47528.27	252.6
		2op	47755	47394.53	134.01	47814	47526.23	185.93	47349	47349	0	47349	47349	0

Table A.954: $m15421_6$: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47851	47569.53	209.95	47923	47473.93	264.22	47899	47562.3	283.96	47846	47431.87	287.17
		2op	47758	47482.57	160.26	47758	47738.97	51.81	47349	47349	0	47349	47349	0
	50	rnd	47824	47493.63	260.9	47949	47428.83	371.53	47851	47514.47	212.22	47939	47515.83	257.85
		2op	47758	47470.63	160.21	47758	47755.9	4.84	47755	47406.6	131.8	47349	47349	0
51	20	rnd	47772	47433.13	290.55	47913	47538.5	216.69	47820	47494.27	309.7	47939	47512.67	305.14
		2op	47758	47495.3	160.08	47758	47756.57	3.37	47758	47554.53	193.51	47349	47349	0
	50	rnd	47848	47434.7	265.21	47919	47450.87	342.01	47838	47518.43	216.44	47833	47475.07	251.89
		2op	47758	47442.27	123.79	47758	47756.8	1.49	47758	47714.73	101.66	47349	47349	0

Table A.955: $m15421_6$: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48021	47635.27	187.35	47909	47630.5	225.44	47862	47579.8	254.74	47943	47560.4	313.84
		2op	47349	47349	0	47349	47349	0	47349	47349	0	47349	47349	0
	50	rnd	47888	47541.43	251.35	47961	47605.63	234.32	48002	47575.93	260.72	48027	47545.97	262.63
		2op	47349	47349	0	47349	47349	0	47349	47349	0	47349	47349	0
51	20	rnd	47933	47532.87	245.91	47868	47544.37	200.38	47923	47611.33	235.31	47866	47553.37	174.66
		2op	47755	47408.1	132.16	47758	47417.43	145.4	47349	47349	0	47349	47349	0
	50	rnd	48043	47636.7	237.48	47897	47492.93	289.89	47915	47557.1	227.61	47972	47509.57	274.39
		2op	47758	47400.13	120.94	47758	47475.1	161.57	47458	47352.63	19.9	47349	47349	0

Table A.956: $m15421_6$: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47919	47514.43	268.33	47982	47536.1	269.66	47864	47477.83	251.91	47925	47482.5	256.88
		2op	47758	47506.07	161.06	47758	47741	53.47	47349	47349	0	47349	47349	0
	50	rnd	47790	47444.2	299.97	47923	47503.43	239.68	47914	47470.27	340.86	47916	47568.33	236.33
51	20	2op	47758	47467.13	167.03	47758	47754.03	6.39	47758	47391.37	122.14	47349	47349	0
		rnd	47830	47536.7	255.82	47916	47485.07	299.76	47909	47563.83	270.74	47839	47510.6	228.83
	50	2op	47758	47444.53	135.36	47758	47756.87	3.06	47758	47509.03	177.54	47349	47349	0
	20	rnd	47848	47459.07	235.74	47837	47407.9	327.14	47986	47562.3	298.49	47916	47524.33	246.58
		2op	47758	47509.3	165	47758	47757.2	1.35	47758	47713.13	97.34	47738	47737.37	92.94

Table A.957: *m15421_6*: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47961	47599.67	223.12	47949	47573.7	212.01	47967	47606.47	197.48	48027	47525.53	293.73
		2op	47814	47593.8	181.83	47814	47566.97	186.5	47349	47349	0	47349	47349	0
	50	rnd	47904	47626.4	206.68	47924	47572.87	218.92	47933	47567.07	217.95	47836	47558.2	261.46
51	20	2op	47758	47549.8	193.01	47758	47549.67	192.88	47349	47349	0	47349	47349	0
		rnd	47848	47490.57	282.97	48052	47620.5	227.66	47952	47521.4	377.02	48043	47548.93	314.69
	50	2op	47758	47711	101.9	47758	47753.87	6.98	47758	47402.17	137.89	47349	47349	0
	20	rnd	47836	47489.2	328.75	47978	47541.77	236.47	47892	47599.67	235.55	47862	47546.23	215.16
		2op	47758	47737.73	62.01	47758	47722.57	111.41	47758	47485.27	183.7	47349	47349	0

Table A.958: *m15421_6*: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47821	47473.7	297.8	47898	47489.5	272.75	47906	47566.23	218.64	47910	47539.4	262.32
		2op	47758	47543	167.51	47758	47562.23	170.11	47758	47375.9	102.38	47349	47349	0
	50	rnd	47840	47527.57	209.96	47886	47521.93	238.67	47944	47451.63	342.38	47943	47457.27	280.78
51	20	2op	47758	47652.9	146.07	47758	47664.33	140.94	47747	47362.27	72.66	47349	47349	0
		rnd	47844	47534.77	252.42	47833	47468.8	277.22	47914	47565.23	266.4	47848	47578.77	181.18
	50	2op	47758	47671.67	131.56	47758	47739.73	61.45	47758	47540.6	192.13	47349	47349	0
	20	rnd	47814	47517.53	203.14	47841	47436.57	258.2	47973	47511.87	294.4	47898	47502.57	241.79
		2op	47758	47634.67	156.98	47758	47739.83	35.57	47758	47425.77	142.64	47349	47349	0

Table A.959: *m15421_6*: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54876	54399.93	310.77	54998	54335.17	287.61	54876	54344.57	374.8	54921	54336.9	344.49
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	54947	54343.53	310.46	55024	54416.37	330.3	54985	54380	243.85	55100	54313.33	364.19
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
51	20	rnd	54898	54288.13	425.26	54909	54378.37	351.6	54752	54290.43	372.14	54955	54322.97	270.66
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	54903	54341.83	327.59	55078	54507.67	286.81	54960	54393.73	372.39	54951	54349.9	337.73
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0

Table A.960: *m15421_7*: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54750	54213.5	266.11	55042	54361.5	406.41	54729	54358.1	271.44	54880	54300.37	341.91
		2op	54753	54722.77	20.06	54959	54733.4	47.51	54705	54705	0	54705	54705	0
	50	rnd	54874	54324.53	368.91	54960	54266.5	418.26	54884	54329	412.07	54827	54397.83	274.96
		2op	54745	54718.43	18.75	54754	54745.1	4.03	54745	54706.33	7.3	54705	54705	0
51	20	rnd	54685	54310.23	315.37	54803	54321.3	327.67	54815	54274.07	283.99	54895	54293.73	318.65
		2op	54745	54719.57	19.25	54766	54747.2	7.7	54745	54713.93	14.74	54705	54705	0
	50	rnd	54922	54451.17	252	54742	54332.77	292.18	54739	54270.33	356.22	54716	54283.9	274.34
		2op	54753	54733.53	18.11	54754	54751.03	4.82	54959	54737.9	46.09	54705	54705	0

Table A.961: *m15421_7*: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55112	54443.47	335.24	55014	54381.13	405.03	55084	54432.3	355.28	55018	54299.83	353.09
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	54837	54331.9	369.22	54866	54304.77	334.66	54902	54405.9	333.46	54912	54335.63	378.13
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
51	20	rnd	54853	54428	242.82	54773	54330.43	316.82	54927	54311.13	315.53	54801	54293	354.18
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	54951	54441	296.28	54931	54479.93	342.07	55046	54433.57	295.44	54924	54427.27	352.54
		2op	54741	54706.2	6.57	54710	54705.17	0.91	54705	54705	0	54705	54705	0

Table A.962: *m15421_7*: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54814	54322.9	320.56	54866	54364.2	293.07	54827	54341.97	352.12	54872	54356.33	359.93
		2op	54745	54719.9	19.71	54747	54724.53	18.32	54705	54705	0	54705	54705	0
	50	rnd	54802	54304.4	377.65	55008	54384.9	369.44	54757	54177.23	390.15	54788	54203.73	333.19
51	20	rnd	54745	54720.47	18.78	54755	54744.97	5.82	54745	54706.5	7.33	54705	54705	0
		2op	54832	54320.53	281.71	54783	54275.33	354.57	54615	54243.57	259.54	54853	54379.4	243.98
	50	rnd	54745	54721.6	20.34	54756	54746.9	6.19	54747	54720.03	20.27	54705	54705	0
	20	rnd	54837	54372.4	334.76	54939	54387.57	329.35	54776	54307.6	328.01	54805	54323.33	325.92
		2op	54745	54723.63	19.72	54762	54750.33	5.03	54959	54737.6	45.91	54705	54705	0

Table A.963: *m15421_7*: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54994	54446.3	344.19	54731	54374.83	271.92	54921	54370.57	321.8	54842	54340.5	374.99
		2op	54754	54708.9	13.36	54754	54708.2	12.98	54705	54705	0	54705	54705	0
	50	rnd	55135	54415.3	326.01	54882	54310.73	324.64	54866	54278.97	393.39	54899	54383.23	348.37
51	20	rnd	54754	54707.63	11.42	54754	54707.6	11.45	54705	54705	0	54705	54705	0
		2op	54909	54377.83	386.89	54977	54336.93	342.75	55037	54452.73	333.2	54942	54183.1	423.38
	50	rnd	54754	54736.83	17.45	54769	54746.93	5.69	54705	54705	0	54705	54705	0
	20	rnd	54938	54506.83	279.2	54933	54335.03	414.61	54834	54333.97	318.79	54913	54309.4	397.13
		2op	54754	54742.17	13.13	54754	54741.63	14.21	54733	54705.93	5.11	54705	54705	0

Table A.964: *m15421_7*: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54884	54280.63	441.6	54869	54384.7	316.75	54939	54354.97	361.88	54834	54348.53	281.78
		2op	54754	54737.13	16.53	54959	54741.03	44.56	54705	54705	0	54705	54705	0
	50	rnd	54881	54403.27	235.41	54982	54432.83	358.75	54832	54270.77	300.29	54945	54355.3	334.98
51	20	rnd	54754	54739.77	13.89	54754	54738.1	13.98	54720	54705.5	2.74	54705	54705	0
		2op	54633	54314.83	314.02	54632	54184.93	288.41	54772	54340.73	308.73	55031	54326.07	372.7
	50	rnd	54754	54742.13	10.6	54754	54745.33	2.56	54747	54713.87	16.32	54705	54705	0
	20	rnd	54778	54368.1	279.54	54826	54280.13	428.56	54858	54321.37	487.16	54856	54220.83	395.98
		2op	54754	54744.3	6.15	54746	54732.17	17.56	54746	54708.8	13.04	54705	54705	0

Table A.965: *m15421_7*: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11394	11209.17	127.74	11478	11244.3	123.58	11372	11161.4	172.76	11478	11207.7	116.54
		2op	11109	11020.4	35.83	11373	11221.83	89.73	11109	11013.33	26.68	11003	11003	0
	50	rnd	11478	11218.8	183.94	11478	11254.37	95.12	11478	11246	139.26	11411	11169.57	158.97
51	20	rnd	11305	11049.03	80.26	11373	11252.8	70.74	11373	11074	86.52	11003	11003	0
		2op	11478	11159.67	156.7	11478	11215.17	146.25	11478	11208.33	118.96	11478	11148.7	179
	50	rnd	11109	11016.33	18.59	11285	11119.77	41.15	11305	11176.93	79.97	11109	11043.93	47.14
	20	rnd	11478	11185.37	143.02	11478	11302.8	113.92	11478	11269.13	143.1	11478	11209.17	157.25
		2op	11109	11069.73	45.01	11373	11213.83	85.29	11373	11277.3	56.23	11109	11029.8	39.67

Table A.966: $x60189_4$: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11340	11116.9	171.15	11478	11203.93	148.99	11478	11177.77	203.64	11478	11178.23	187.02
		2op	11109	11023.2	32.22	11305	11121.4	47.26	11109	11109	0	11017	11003.93	3.55
	50	rnd	11291	11111.53	142.9	11478	11182.17	168.78	11478	11188.77	181.01	11411	11179.47	161.68
51	20	rnd	11109	11027.67	35.09	11285	11129.57	53.53	11285	11125.63	50.94	11109	11053.13	46.29
		2op	11340	11075.03	151.01	11478	11162.67	166.24	11478	11183.63	191.15	11411	11164.93	176.98
	50	rnd	11109	11020.6	27.67	11109	11105.93	16.8	11256	11123.7	44.85	11109	11109	0
	20	rnd	11411	11053.6	195.52	11411	11180.7	157.17	11394	11151.33	159.52	11478	11201.9	165.44
		2op	11109	11020.6	30.71	11109	11109	0	11256	11122.17	46.14	11109	11109	0

Table A.967: $x60189_4$: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11217.5	173.54	11478	11289.4	125.16	11478	11205.27	147.92	11478	11175.8	158.56
		2op	11285	11026.67	63.08	11394	11251.63	81.23	11151	11023	42.61	11003	11003	0
	50	rnd	11478	11197.6	122.5	11478	11241.8	148.21	11373	11219.43	99.22	11478	11213.37	131.19
51	20	rnd	11213	11022.93	48.02	11373	11270.6	55	11305	11074.33	92.1	11003	11003	0
		2op	11478	11172.53	138.2	11478	11165.97	156.32	11394	11214.2	104.45	11478	11162.43	172.15
	50	rnd	11109	11034	38.37	11305	11138.7	67.96	11305	11155.7	79.66	11109	11047.93	47.55
	20	rnd	11478	11186.97	178.68	11478	11275	146.34	11478	11286.63	135.67	11478	11238.8	167.13
		2op	11305	11056.13	66.34	11373	11210.83	101.36	11373	11268.03	57.77	11109	11027.93	41.66

Table A.968: $x60189_4$: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11394	11126.6	152.11	11411	11196.33	144.16	11478	11195.37	178.27	11478	11154.13	175.89
		2op	11109	11014.47	19.14	11285	11124.67	48.01	11305	11115.53	35.78	11017	11003.47	2.56
	50	rnd	11303	11052.33	191.91	11478	11180.73	172	11411	11140.37	172.54	11411	11211.2	117.81
51	20	rnd	11332	11077.93	190.75	11394	11195.37	147.18	11478	11228.87	139.55	11478	11215.83	140.69
		2op	11095	11021.07	25.81	11109	11109	0	11305	11132.17	60.42	11109	11109	0
	50	rnd	11291	11191.73	101.97	11478	11144.73	169.41	11478	11181.5	139.92	11478	11238.63	151.76
		2op	11095	11013.53	16.89	11109	11105.93	16.8	11256	11128.6	50.82	11109	11109	0

Table A.969: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11207.13	136.89	11478	11260.37	135.45	11478	11187.1	176.02	11394	11182.2	159.84
		2op	11109	11069.87	48.95	11305	11273.3	59.4	11109	11011.47	26.85	11003	11003	0
	50	rnd	11478	11166.7	154.82	11478	11267.17	117.2	11478	11202.57	132.96	11478	11169.17	167.18
51	20	rnd	11256	11083.23	54.56	11394	11233.4	87.01	11109	11015.47	32.07	11003	11003	0
		2op	11478	11178.37	154.6	11478	11269.33	145.05	11478	11239.53	125.21	11478	11207.2	151.73
	50	rnd	11109	11078.33	44.11	11305	11122.07	49.73	11109	11050.73	45.09	11003	11003	0
		2op	11411	11214.07	120.53	11478	11241	148.49	11478	11179.83	153.47	11413	11163.6	162.93
			11213	11094.07	43.51	11305	11149.17	74.89	11305	11043.13	61.99	11017	11004.4	4.27

Table A.970: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11394	11096.7	193.59	11394	11116.53	188.36	11413	11177.87	168.11	11394	11133.73	171.11
		2op	11109	11043.2	40.87	11109	11086.13	39.02	11095	11009.33	17.25	11003	11003	0
	50	rnd	11332	11154.37	132.5	11478	11190.93	178.07	11478	11183.1	133.63	11394	11146.7	157.54
51	20	rnd	11109	11052.87	44.8	11305	11120.43	43.98	11109	11028.87	37.86	11095	11006.07	16.8
		2op	11332	11090.2	177.56	11478	11148.63	163.61	11478	11164.13	203.87	11411	11112.6	194.91
	50	rnd	11109	11061.13	45.11	11151	11106.87	18.83	11109	11048.87	43.82	11017	11004.4	4.27
		2op	11332	11137.43	156.88	11394	11189.87	184.02	11478	11199.8	137.2	11478	11158.07	164.89
			11109	11055.93	45.41	11109	11087.07	39.4	11109	11083.07	40.74	11109	11008.4	19.6

Table A.971: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14119	13827.37	154.68	14161	13929.93	111.58	14006	13824.63	131.07	14133	13847.53	163
		2op	14001	13843.13	117.19	14157	13999.97	48.74	13995	13744.63	73.03	13721	13721	0
	50	rnd	14157	13818.33	202.6	14133	13899.6	124.22	14157	13857.5	169.49	14133	13767.93	206.85
51	20	rnd	14133	13873.27	124.09	14133	14006.57	39.87	14001	13809.33	103.79	13721	13721	0
		2op	14119	13817.5	195.03	14137	13850.93	140.58	14139	13872.37	120	14076	13818.57	191.96
	50	rnd	14038	13858.3	90.31	14124	13982.2	46.82	14038	13981.73	32.51	13867	13725.87	26.66
	20	rnd	14071	13800	196.69	14161	13917.47	158.44	14139	13915.67	134.12	14161	13797.3	154.33
		2op	13995	13890.63	88.4	14157	14001.7	50.28	14157	13996.27	37.85	13827	13724.53	19.35

Table A.972: $x60189_5$: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14039	13770.97	171.96	14157	13856	179.11	14133	13801.7	185.76	14157	13780.1	195.92
		2op	13938	13770.63	61.03	14064	13968.4	32.02	13995	13938.77	64.06	13721	13721	0
	50	rnd	14091	13820.43	172.24	14099	13863.6	144.68	14139	13868.47	122.34	14079	13827.23	186.88
51	20	rnd	13938	13791.8	64.6	14064	13979.87	37.64	13995	13965.8	25.88	13922	13737.77	46.44
		2op	14100	13812.9	133.98	14089	13746.33	206.78	14161	13851.57	183.56	14137	13831.73	164.8
	50	rnd	13938	13803.1	78.63	14030	13972.07	17.43	13995	13963.3	21.22	13995	13800.23	91.94
	20	rnd	14060	13835.6	162.09	14121	13825.73	158.63	14133	13883.7	166.14	14121	13799.5	160.83
		2op	13827	13752.8	49.41	13995	13958.37	21.63	14157	13985.5	47.79	13968	13824.87	84.98

Table A.973: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14133	13809.7	180.54	14139	13923.5	143.53	14139	13825.83	181.57	14105	13745.6	187.53
		2op	14038	13868.97	115.99	14157	14002.4	60.12	13995	13738.33	66.07	13721	13721	0
	50	rnd	14128	13845.6	129.23	14157	13936.5	169.67	14100	13844.7	186.52	14137	13836.5	201.54
51	20	rnd	14038	13884.67	119.68	14064	14002.17	28.38	14038	13799.03	114.85	13721	13721	0
		2op	14064	13840.43	144.36	14107	13858.53	123.01	14157	13880.77	155.82	14139	13877.27	183.92
	50	rnd	14038	13849.6	100.14	14157	13995.2	39.59	14064	13992.07	23.21	13932	13734.73	52.28
	20	rnd	14139	13855.3	181.78	14161	13936.37	163.69	14161	13958.47	139.53	14137	13768.83	186.91
		2op	14038	13883.2	109.28	14157	13995.23	41.26	14064	14000.67	31.28	14038	13734.57	59.62

Table A.974: $x60189_5$: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14089	13835.97	159.75	14161	13856.7	172.94	14133	13836.93	155.29	14094	13796.4	135.01
		2op	13938	13774.33	67.58	14064	13964.5	36.83	13995	13902.6	84.55	13721	13721	0
	50	rnd	14133	13803.7	180.42	14161	13829.57	171.11	14139	13817.83	194.22	14066	13800.07	148.12
51	20	rnd	13938	13780.67	66.37	14064	13974.4	31.1	13995	13965.97	25.88	13827	13724.53	19.35
		2op	14064	13799.87	188	14161	13820.43	182.58	14079	13825.87	158.06	14121	13791.23	195.85
	50	rnd	13932	13773.97	60.58	14157	13979.77	39.01	13995	13968.73	22.96	13968	13796.97	79.61
	20	rnd	14067	13826.77	150.24	14094	13777.37	177.08	14161	13855.43	197.82	14103	13858.4	167.89
		2op	13827	13774	53.91	14064	13956.77	51.1	14005	13963.83	29.7	14038	13803.67	86.23

Table A.975: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14139	13827.17	179.85	14139	13944.13	97.81	14127	13779.83	167.36	14139	13842.1	171.19
		2op	14038	13924.83	74.7	14157	14003.53	48.34	13995	13737.17	62.08	13721	13721	0
	50	rnd	14161	13823.47	193.1	14139	13908.83	141.21	14038	13770.4	146.87	14064	13800.23	157.74
51	20	rnd	14038	13966.33	85.82	14038	13991	26.98	14004	13755.53	89.85	13721	13721	0
		2op	14103	13862.2	140.16	14161	13882.03	122.8	14139	13855.63	161.24	14127	13814.5	177.43
	50	rnd	14038	13913.83	99.82	13995	13978.13	14.1	14001	13814.4	99.42	13721	13721	0
	20	rnd	14038	13841.17	113.27	14133	13899.67	134.99	14161	13870.2	161.6	14161	13814.87	157.21
		2op	14038	13971.27	42.96	14064	13985.2	31.24	13962	13790.1	92.92	13721	13721	0

Table A.976: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14078	13839.8	165.27	14068	13824.67	184.18	14105	13844.5	160.53	14099	13778.4	189.13
		2op	13938	13825.5	66.14	13995	13879.73	60.9	13827	13731.07	30.81	13721	13721	0
	50	rnd	14100	13880.73	182.42	14125	13840.87	201.65	14127	13776.27	188.36	14123	13835.73	146.61
51	20	rnd	13932	13819.9	38.61	14038	13936.37	52.31	13827	13731.6	32.34	13721	13721	0
		2op	14103	13835.17	178.69	13998	13811.93	135.66	14097	13817.07	183.84	14071	13867.87	145.04
	50	rnd	13938	13830.8	52.51	13995	13904.7	60.8	14038	13788.73	88.46	13721	13721	0
	20	rnd	14133	13876.43	135.81	14038	13802	125.09	14139	13882.8	140.03	14133	13768.97	160.52
		2op	13968	13842.6	40.79	13995	13871.17	57.99	13995	13795.37	75.33	13721	13721	0

Table A.977: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18093	17859.67	166.99	18101	17936.8	143.85	18301	17895.07	211.04	18261	17880.73	193.21
		2op	18017	18003.2	11.46	18017	18001.67	11.03	17994	17994	0	17994	17994	0
	50	rnd	18175	17837.77	201.91	18181	17961.2	175.24	18172	17871.83	218.22	18301	17895.5	196.63
51	20	rnd	18017	18003.97	11.59	18017	18015.2	5.94	17994	17994	0	17994	17994	0
		2op	18184	17865.43	173.41	18171	17929.03	140.77	18131	17873.73	202.05	18176	17881.67	208.26
	50	rnd	18017	18007.03	11.59	18017	18017	0	18017	18000.13	10.34	17994	17994	0
	20	rnd	18114	17810.53	188.22	18125	17896.73	180.08	18156	17915.17	145.38	18172	17865.93	184.48
		2op	18017	18010.1	10.72	18017	18017	0	18017	18009.33	11.03	17994	17994	0

Table A.978: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18074	17842.47	140.26	18152	17783.27	208.26	18172	17828.63	219.55	18172	17775.6	173.04
		2op	18017	18007.03	11.59	18017	18017	0	18017	18013.93	7.95	17994	17994	0
	50	rnd	18156	17844.9	124.42	18172	17929.33	181.74	18156	17801.73	232.58	18184	17841.37	175.94
51	20	rnd	18017	18006.27	11.67	18017	18017	0	18017	18017	0	18017	17994.77	4.2
		2op	18184	17837.37	193.04	18129	17780.33	172.57	18129	17832.93	178.13	18171	17860.8	179.6
	50	rnd	18017	18007.03	11.59	18017	18017	0	18017	18017	0	18017	18000.13	10.34
	20	rnd	18184	17900.13	193.83	18091	17823.47	184.19	18175	17871.37	188.06	18172	17882.83	167.63
		2op	18017	18004.73	11.67	18017	18017	0	18017	18017	0	18017	18000.13	10.34

Table A.979: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18176	17840.53	208.39	18171	17858.57	169.86	18159	17883.8	179.23	18171	17863.13	185.53
		2op	18017	17997.07	7.95	18017	18003.2	11.46	17994	17994	0	17994	17994	0
	50	rnd	18109	17884.63	146.16	18301	17923.93	166.27	18172	17869.2	167.75	18172	17908.8	188.91
51	20	rnd	18017	18001.67	11.03	18017	18013.17	8.72	17994	17994	0	17994	17994	0
		2op	18235	17849.8	182.91	18131	17925.17	154.87	18275	17932.57	174.04	18084	17793.9	178.44
	50	rnd	18017	18007.8	11.46	18017	18017	0	18017	17999.37	9.89	17994	17994	0
	20	rnd	18301	17929.2	160.94	18171	17918.9	149.08	18184	17915.37	154.93	18134	17899.43	121.66
		2op	18017	18007.8	11.46	18017	18017	0	18017	18014.7	7.02	17994	17994	0

Table A.980: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18184	17851.53	189.79	18171	17868.83	184.71	18292	17809.7	187.23	18184	17817.83	235.51
		2op	18017	18005.5	11.7	18017	18017	0	18017	18009.33	11.03	17994	17994	0
	50	rnd	18172	17811.67	194.1	18156	17898.9	159.69	18172	17851.6	181.36	18142	17868.37	176.77
51	20	rnd	18017	18003.97	11.59	18017	18017	0	18017	18017	0	17994	17994	0
		2op	18175	17848.87	146.01	18086	17850.63	157.35	18301	17874.5	231.84	18109	17830.6	177.33
	50	rnd	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18017	17999.37	9.89
	20	rnd	18142	17843.4	165.66	18142	17796.1	215.55	18156	17873.87	196.26	18301	17832.43	224.63
		2op	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18017	18002.43	11.27

Table A.981: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17852.13	239.69	18175	17975.57	139.04	18152	17877.5	144.8	18301	17900.93	151.42
		2op	18017	18017	0	18017	18017	0	17994	17994	0	17994	17994	0
	50	rnd	18084	17851.57	139.95	18186	17978.1	135.46	18156	17869.5	181.29	18152	17889.67	166.8
51	20	rnd	18017	18015.47	5.84	18017	18016.23	4.2	17994	17994	0	17994	17994	0
		2op	18181	17862.47	216.93	18159	17899.5	155.8	18053	17838.83	193.69	18260	17856.6	205.15
	50	rnd	18017	18017	0	18017	18017	0	18017	18008.57	11.27	17994	17994	0
	20	rnd	18176	17984.53	145.49	18143	17890.3	171.8	18142	17938.8	129.6	18216	17903.23	126.59
		2op	18017	18017	0	18017	18017	0	18017	18001.67	11.03	17994	17994	0

Table A.982: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18156	17832.27	196.72	18105	17868.13	176.45	18301	17842.6	248.55	18275	17901.4	192.21
		2op	18017	18017	0	18017	18017	0	18017	17997.07	7.95	17994	17994	0
	50	rnd	18109	17880	126.64	18172	17872.23	159.89	18171	17885.03	207.79	18044	17777.53	187.56
51	20	rnd	18017	18016.23	4.2	18017	18017	0	18017	18000.13	10.34	17994	17994	0
		2op	18175	17892.53	190.12	18158	17876	194.91	18141	17886.13	171.23	18119	17831.87	156.64
	50	rnd	18017	18017	0	18017	18017	0	18017	18011.63	9.89	17994	17994	0
	20	rnd	18142	17826.27	193.62	18142	17849.27	171.02	18184	17835.2	224.97	18172	17873.53	181.16
		2op	18017	18017	0	18017	18017	0	18017	18011.63	9.89	17994	17994	0

Table A.983: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21178	20839.17	201.65	21167	20876.37	178.07	21153	20863.37	246.93	21150	20869.97	195.18
		2op	20829	20829	0	21193	20855.17	78.95	20829	20829	0	20829	20829	0
	50	rnd	21162	20812.47	237.93	21176	20933.93	141.9	21184	20846.13	214.07	21196	20867.57	230.28
51	20	rnd	21008	20839.43	40.14	21210	20945.1	129.46	20829	20829	0	20829	20829	0
		2op	21172	20826.4	213.93	21158	20891.5	190.26	21182	20939.97	155.72	21192	20810.37	249.79
	50	rnd	20829	20829	0	21193	20914.2	111.85	21052	20836.43	40.71	20829	20829	0
	20	rnd	21206	20809.13	280.19	21186	20909.57	196.91	21206	20910.77	150.09	21172	20870.3	216.24
		2op	20889	20831	10.95	21187	20942.27	106.62	21193	20849.13	68.16	20829	20829	0

Table A.984: $x60189_7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21199	20863.17	197.87	21157	20791.73	247.76	21104	20797.03	192.01	21212	20883.13	190.11
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	21212	20859.33	199.94	21203	20815.07	213.97	21177	20813.33	259.85	21206	20831	221.23
51	20	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	21152	20870.53	181.34	21163	20917.53	193.55	21163	20802.7	262.34	21181	20882.37	178.41
	50	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	20	rnd	21199	20890.8	195.48	21182	20747.3	259.05	21141	20821.43	182.92	21212	20865.4	207.35
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.985: $x60189_7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21175	20831.87	233.29	21135	20907.77	168.9	21166	20807.47	217.94	21233	20848.9	212.81
		2op	20997	20836.6	32.21	21139	20844.1	58.75	20829	20829	0	20829	20829	0
	50	rnd	21233	20871.33	227.66	21206	20981.33	142.41	21113	20725.43	230.55	21157	20846	178.94
51	20	rnd	21077	20844.87	60.44	21135	20865.5	78.21	20829	20829	0	20829	20829	0
		2op	21157	20822.73	232.04	21160	20883.4	203.24	21197	20813.57	259.64	21212	20854.97	187.9
	50	rnd	20889	20831	10.95	21035	20896.03	76.31	20889	20831	10.95	20829	20829	0
	20	rnd	21122	20860	212.71	21176	20946.97	175.15	21161	20952.57	119.87	21168	20847.63	169.31
		2op	21042	20839.4	42.31	21090	20945.53	92.47	21187	20848.03	74.89	20829	20829	0

Table A.986: $x60189_7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21159	20799.33	185.26	21212	20815.6	208.4	21212	20857.57	256.52	21132	20857.67	213.98
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	21198	20886.33	180.87	21149	20860.67	204.53	21184	20778.57	214.77	21162	20832.6	183.47
51	20	rnd	21152	20896.9	152.23	21186	20843.73	200.29	21172	20737.6	239.79	21160	20873.87	170.82
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	21182	20870	209.59	21161	20784.97	219.06	21151	20867.3	175.2	21195	20882.77	215.54
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.987: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21215	20858.97	210.35	21260	20946.47	147.93	21169	20869.83	205.33	21246	20852.7	204.59
		2op	20829	20829	0	21057	20865.27	68.09	20829	20829	0	20829	20829	0
	50	rnd	21271	20862.33	160.94	21164	20967.33	138.63	21190	20808.07	181.92	21160	20817.83	187.75
51	20	rnd	21008	20838.77	35.08	21193	20875.97	88.97	20829	20829	0	20829	20829	0
		2op	21157	20848.57	201.83	21164	20887.2	187.65	21132	20885.77	214.88	21224	20819	223.81
	50	rnd	20889	20831	10.95	21193	20902.83	104.34	20889	20831	10.95	20829	20829	0
		2op	21145	20848.07	187.4	21166	20860.1	186.52	21211	20873.1	230.4	21178	20849.07	189.47
			21193	20868.4	106.42	21193	20923	122.08	20889	20831	10.95	20829	20829	0

Table A.988: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21207	20899.17	200.27	21165	20797.23	244.8	21160	20790.6	228.93	21130	20761.17	192.23
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	21218	20830.13	265.92	21156	20799.3	208.06	21160	20802.07	212.69	21087	20795.5	177.88
51	20	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	21203	20836.03	221.55	21159	20841.6	224.83	21271	20873.13	233.25	21114	20830.47	199.72
	50	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	21203	20840.67	176.38	21182	20890.33	209.7	21075	20772.83	207.53	21186	20839.33	215.68
			20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.989: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.2	2.95	596	593.47	1.87	596	592.7	2.2	596	590.03	2.82
		2op	596	591.73	2.63	596	594.43	1.17	596	594.23	1.38	595	590.37	2.31
	50	rnd	596	592.1	2.95	596	594.27	1.36	596	594.6	1.1	595	589.7	3.65
		2op	595	592.3	2.26	596	594.27	1.2	596	594.7	0.84	595	590.57	2.19
51	20	rnd	595	591.03	2.41	596	593.47	1.66	596	594.13	1.46	596	592.83	2.18
		2op	595	593.27	1.86	596	594.63	0.61	596	595.23	0.43	595	594.7	0.53
	50	rnd	596	592.4	2.31	596	594.43	1.19	596	594.5	1.11	596	593.77	1.81
		2op	595	592.9	2.29	596	595	0.69	596	595.13	0.57	596	594.3	1.09

Table A.990: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	589.7	4.21	595	591.6	3.21	596	592.33	2.6	596	590.77	3.06
		2op	594	590.6	2.33	595	594.83	0.38	595	594.2	0.48	594	593.6	1.1
	50	rnd	596	590.73	3.93	596	591.23	2.42	596	592.83	2.31	595	591.47	2.86
		2op	594	590.67	2.19	595	594.9	0.31	595	594.83	0.38	595	594.1	0.31
51	20	rnd	596	590.57	4.51	596	590.23	4.92	596	591.23	3.14	595	590.87	2.8
		2op	594	591.03	2.3	595	594.27	0.94	595	594.7	0.47	595	594.13	0.43
	50	rnd	596	591.4	3.15	596	589.27	5.32	596	590.9	5.02	596	591.57	2.42
		2op	594	591.07	2.29	595	594.4	0.5	595	594.9	0.31	595	594.17	0.46

Table A.991: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	590.9	3.36	596	593.67	1.77	596	592.73	2.03	595	590.6	2.84
		2op	596	591.13	2.43	596	594.43	1.07	596	593.77	1.22	594	589.17	0.91
	50	rnd	595	591.03	2.83	596	593.9	1.73	596	593.9	1.42	595	591	3.01
		2op	596	592.03	2.33	596	594.93	1.01	596	594.5	1.01	595	589.87	2
51	20	rnd	595	590.5	3.31	596	593.27	1.84	596	594.4	1.67	595	592.73	1.72
		2op	595	592.73	2.15	596	594.67	0.55	596	595.07	0.37	596	594.83	0.53
	50	rnd	596	591.63	2.7	596	594.67	0.96	596	594.5	1.25	596	593.2	1.97
		2op	596	593.37	1.85	596	595.07	0.74	596	595.13	0.78	596	594.47	0.9

Table A.992: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	590.2	5.09	596	591.37	3.93	595	591.37	2.57	596	590.87	3.28
		2op	594	591.13	2.18	595	594.8	0.55	595	594.1	0.31	594	593.03	1.45
	50	rnd	596	590.7	3.42	596	591.23	3.41	595	591.13	3.26	596	590.6	3.01
51	20	rnd	594	591.23	2.4	596	594.9	0.4	595	594.67	0.48	595	594	0.26
		2op	595	589.3	5.94	596	589.87	5.32	596	592.53	2.7	595	591.8	2.47
	50	rnd	594	590.9	2.25	595	594.53	0.51	595	594.67	0.48	595	594.13	0.35
	20	rnd	596	590.33	5.09	596	590.5	3.17	596	590.93	2.89	595	590.9	3.2
		2op	594	590.97	2.24	595	594.3	0.47	595	594.9	0.31	595	594.1	0.4

Table A.993: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.37	2.61	596	593.97	1.33	595	591.23	2.86	595	589.03	3.42
		2op	596	594.33	0.71	596	595.1	0.55	594	589.17	0.91	589	589	0
	50	rnd	595	591.77	2.01	595	593.2	1.75	595	590.57	2.93	595	588.7	3.65
51	20	rnd	596	593.9	1.52	596	594.83	0.46	594	589.43	1.25	589	589	0
		2op	596	592.6	1.98	596	594.17	1.23	596	592.37	2.04	596	591.77	2.11
	50	rnd	595	594.13	0.35	596	595.07	0.25	595	594.3	0.47	595	591.47	2.33
	20	rnd	596	592.77	1.7	596	593.77	1.55	596	592.07	2.32	595	589.17	3.65
		2op	596	594.67	0.55	596	595.07	0.58	595	593.63	1.1	592	589.1	0.55

Table A.994: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.37	3.49	596	591.07	2.65	596	590.57	3.66	595	589.97	4.09
		2op	594	592.93	1.8	595	593.93	0.58	594	590.17	1.93	589	589	0
	50	rnd	595	591.57	2.36	595	590.57	3.09	595	590.57	2.98	595	589.27	3.78
51	20	rnd	594	593.1	1.6	595	594.07	0.25	594	593.2	1.35	592	589.17	0.65
		2op	596	589.67	3.79	595	589.77	3.23	596	591.07	2.68	595	589.77	2.74
	50	rnd	595	593.53	1.2	594	594	0	594	593.93	0.37	594	589.33	1.27
	20	rnd	596	589.83	5.07	596	590.97	3.15	596	591.3	2.9	595	588.7	3.88
		2op	594	593.37	1.38	594	594	0	595	594.03	0.18	594	589.53	1.43

Table A.995: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	770.53	5.83	777	774.13	2.26	777	773.63	2.51	776	770.8	5.59
		2op	775	767.87	3.55	777	774.1	2.29	777	773.13	1.98	770	765.23	0.97
	50	rnd	777	772.03	5.08	777	775.33	1.47	777	775	1.86	777	770.77	3.28
51	20	rnd	777	770.87	5.27	776	773.2	2.48	777	773.93	1.96	777	772.4	2.54
		2op	775	768.07	2.55	777	772.6	1.75	777	773.3	1.21	775	771.7	1.9
	50	rnd	777	771.97	4.59	777	774.5	1.55	777	775.27	1.48	777	773.97	1.88
		2op	773	769.33	1.75	777	774.37	1.81	777	775.1	1.75	775	772.1	1.56

Table A.996: $f_{25,400}$: basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	762.67	9.85	777	773.03	3.07	777	771.47	5.54	777	769.47	8.24
		2op	770	766.57	1.99	772	769.63	0.67	770	769.4	0.5	772	769.47	0.82
	50	rnd	772	763.7	7.86	776	770.97	4.86	777	773.03	2.62	777	769.07	7.57
51	20	rnd	770	765.6	1.38	770	769.57	0.5	772	769.67	0.66	770	769.37	0.49
		2op	775	762.77	9.59	775	769.3	6.6	777	772.23	3.33	777	769.63	7.78
	50	rnd	770	767.27	2.29	770	769.6	0.5	770	769.33	0.48	772	769.67	0.8
		2op	775	762.7	9.08	775	767.03	6.92	777	770.17	5.4	777	771.8	3.66
		2op	770	766.2	1.88	770	769.47	0.51	770	769.57	0.5	770	769.47	0.51

Table A.997: $f_{25,400}$: transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.6	2.77	777	774.5	1.85	777	773.83	2.1	777	768.67	6.28
		2op	774	768.73	3.14	777	773.87	2.36	777	772.2	1.65	770	765.43	1.3
	50	rnd	777	772.6	2.97	777	774.77	1.38	777	774.67	1.52	775	770.77	3.14
51	20	rnd	775	769.6	2.79	777	775.03	1.87	777	774.8	1.45	770	765.8	1.61
		2op	777	770.87	4.82	777	773.67	2.4	777	774.1	1.84	777	772.93	3.11
	50	rnd	775	768.13	2.34	777	773.4	1.63	777	773.6	1.75	776	772.07	1.68
		2op	777	773.5	1.93	777	774.6	1.73	777	775.7	1.15	777	773.07	3.04
		2op	775	769.83	2.72	777	774.07	1.68	777	775	1.93	777	772.9	2.32

Table A.998: $f_{25,400}$: basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	770	760.5	10.38	776	770.47	6.53	777	772	2.96	777	770.03	8.07
		2op	770	766.1	1.95	770	769.57	0.97	774	769.53	0.97	770	769.07	1.34
	50	rnd	775	764.6	9.73	777	766.8	9.93	777	772.13	3.03	777	769.27	5.84
		2op	770	765.87	1.7	770	769.47	0.51	772	769.77	0.77	770	769.43	0.5
51	20	rnd	775	763.83	10.5	777	765.9	10.51	777	770.8	5.61	776	772.07	3.15
		2op	770	766.43	1.98	770	769.6	0.5	772	769.57	0.68	770	769.6	0.5
	50	rnd	775	765.77	7.53	777	766.77	10.38	777	770.1	5.27	777	772.73	3.65
		2op	770	766.1	1.73	770	769.4	0.5	770	769.33	0.48	770	769.5	0.51

Table A.999: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	770.5	3.4	776	773.73	1.8	777	770.97	3.77	775	766.7	9.4
		2op	775	769.17	2.28	777	773.23	1.59	770	765.33	1.27	765	765	0
	50	rnd	777	772.43	2.66	777	774.77	1.55	777	770.73	4.27	776	767.27	6.55
		2op	777	770.27	3.13	777	773.87	1.66	775	765.87	2.24	765	765	0
51	20	rnd	777	771.47	2.75	777	773.33	2.48	777	772.37	2.67	777	771.1	3.14
		2op	772	769.37	1.4	776	772.17	1.42	774	770.73	1.39	770	766	1.78
	50	rnd	777	773.7	2.32	777	773.83	2.05	777	773.1	2.67	776	769.07	4.93
		2op	775	770.53	1.8	777	772.57	1.55	774	770.63	1.5	765	765	0

Table A.1000: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	774	763.13	10.14	776	770.03	3.4	777	770.7	3.72	777	769.13	5.63
		2op	770	767.87	1.93	770	769.47	0.68	770	766.07	1.72	765	765	0
	50	rnd	775	764.63	7.52	775	768.17	7.4	777	770.77	3.76	777	770.13	3.95
		2op	770	768.37	1.87	770	769.53	0.51	770	768.33	1.67	765	765	0
51	20	rnd	775	764.33	9.26	775	764.93	9.48	777	771.6	3.79	775	770.6	3.57
		2op	770	769	1.31	770	769.73	0.45	770	769.3	0.65	769	765.47	1.11
	50	rnd	775	764.3	9.07	774	766.5	6.63	777	769.73	4.73	777	769.93	4.84
		2op	770	769.03	1.13	770	769.47	0.68	770	769.57	0.5	770	765.2	0.92

Table A.1001: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	913.97	3.37	921	916.63	2.61	921	915.9	2.6	919	913.07	3.94
		2op	919	912.57	4.45	921	918.43	1.87	921	917.5	2	918	909.3	3.74
	50	rnd	921	915.1	2.99	921	917.8	2.35	921	918.2	2.04	919	912.97	3.84
51	20	2op	921	914.13	3.94	921	918.43	2.03	921	918.87	2.06	919	912.43	3.82
		rnd	919	913.47	3.53	921	915.77	2.45	921	917.53	2.24	921	915.93	2.96
	50	2op	916	913.87	2.66	921	916.93	1.39	921	917.6	1.63	918	916.07	0.69
	20	rnd	919	914.1	3.2	921	916.1	2.62	921	917.23	2.14	921	914.87	3.56
		2op	917	914.97	2.28	921	918.73	2.05	921	919.27	1.78	921	916.53	1.7
	50	rnd	919	913.87	2.66	921	916.93	1.39	921	917.6	1.63	918	916.07	0.69

Table A.1002: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	912.97	6.41	919	913.6	2.7	919	915.03	3.27	921	915.3	3.23
		2op	916	911.1	3.54	918	915.9	0.84	916	916	0	916	915.9	0.55
	50	rnd	919	912.13	6.33	919	912.83	6.22	921	915.13	2.87	921	914.2	3.21
51	20	2op	916	911.9	4.16	916	915.97	0.18	921	916.23	0.97	916	915.97	0.18
		rnd	918	909.8	9.5	919	914.17	3.75	919	914.53	3.4	919	914.3	2.82
	50	2op	916	911.13	4.29	916	916	0	918	916.07	0.37	916	915.97	0.18
	20	rnd	921	912.5	4.53	919	913.67	3.67	921	912.67	3.64	921	915.17	2.61
		2op	916	911.33	3.79	916	916	0	916	916	0	916	915.97	0.18
	50	rnd	919	913.87	2.66	921	916.93	1.39	921	917.6	1.63	918	916.07	0.69

Table A.1003: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.93	3.84	921	917.3	2.02	921	916.27	2.55	919	913.27	3.19
		2op	919	912.83	3.79	921	918.1	2.16	921	916.63	2.01	921	908.87	4.45
	50	rnd	921	913.83	3.12	921	916.83	2.12	921	917.8	2.06	919	914.83	3.12
51	20	2op	921	914.57	4.01	921	918.33	1.9	921	918.9	1.92	918	910.9	4.54
		rnd	919	914.13	2.32	919	915.53	2.3	921	916.3	2.38	921	915.9	3.13
	50	2op	917	914.5	2.86	921	916.57	2.34	921	918.07	1.98	921	916.43	1.1
	20	rnd	921	914.97	3.16	921	916.83	2	921	918.1	1.6	919	915	2.73
		2op	919	914.57	2.43	921	918.53	1.94	921	918.67	1.92	919	916.2	0.89
	50	rnd	919	913.87	2.66	921	916.93	1.39	921	917.6	1.63	918	916.07	0.69

Table A.1004: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	910.67	7.08	919	914.23	3.39	921	915.73	2.42	919	913.07	5.52
		2op	916	911.43	4.1	916	916	0	918	916.13	0.51	916	916	0
	50	rnd	919	911.6	7.67	919	913.63	3.46	921	914.97	2.74	919	914.7	3.71
51	20	2op	916	911.33	4.01	916	915.97	0.18	921	916.53	1.36	916	915.83	0.91
		rnd	918	911.37	4.67	919	913.07	4.52	919	914.1	2.78	919	915.3	3.01
	50	2op	916	911.37	3.93	916	916	0	916	916	0	916	916	0
	20	rnd	918	911.2	3.39	918	913.23	4.11	919	914.57	3.21	921	914.43	3.65
		2op	916	910.57	3.95	916	916	0	916	916	0	916	916	0
	50	rnd	918	911.2	3.39	918	913.23	4.11	919	914.57	3.21	921	914.43	3.65
	2op	916	910.57	3.95	916	916	916	0	916	916	0	916	916	0

Table A.1005: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	913.57	2.91	921	916.8	2.3	917	911.47	2.49	918	910.83	4.74
		2op	918	914.6	2.31	921	917.1	1.54	918	907.6	3.12	906	906	0
	50	rnd	919	915.2	2.71	921	918	1.93	919	913.77	3.41	918	912.43	3.65
		2op	918	914.73	2.36	921	917.43	1.63	917	908	3.56	906	906	0
51	20	rnd	921	915.27	2.56	921	917.1	2.51	921	915.97	2.65	921	914.17	3.29
		2op	916	915.83	0.91	917	916.07	0.25	918	916.07	0.37	919	914.7	2.87
	50	rnd	921	916.23	3.4	921	916.43	3.06	921	915.53	2.79	921	913.67	3.29
		2op	916	915.97	0.18	921	916.5	1.17	919	915.5	1.89	919	907.53	3.75

Table A.1006: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	911.07	5.37	921	914.23	3.83	921	914.13	3.26	921	913.03	3.93
		2op	916	913.93	2.42	916	916	0	919	915.7	2.31	914	906.27	1.46
	50	rnd	921	913.5	3.93	921	912.7	5.49	921	915.03	2.93	919	913.43	3.84
51	20	2op	916	914.17	2.31	916	916	0	916	916	0	912	906.7	1.62
		rnd	918	912.43	5.06	921	910.53	8.58	919	913.7	4.85	919	912.6	4.47
	50	2op	916	915.87	0.73	916	916	0	916	916	0	919	910.97	4.37
	20	rnd	919	912.73	3.3	921	912.9	7.1	918	913.23	3.1	919	912.83	3.18
		2op	916	915.3	1.6	916	916	0	916	916	0	918	909.43	3.28
	50	rnd	919	912.73	3.3	921	912.9	7.1	918	913.23	3.1	919	912.83	3.18
	2op	916	915.3	1.6	916	916	916	0	916	916	0	918	909.43	3.28

Table A.1007: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1577	1559.2	13.02	1572	1559.67	7.57	1572	1557.87	10.34	1573	1556.77	11.97
		2op	1553	1553	0	1553	1553	0	1553	1553	0	1553	1553	0
	50	rnd	1572	1558.97	9.22	1574	1560.2	6.89	1575	1560.03	8.06	1568	1553.8	12.88
51	20	rnd	1568	1553.87	3.34	1570	1553.57	3.1	1553	1553	0	1553	1553	0
		2op	1571	1559.2	10.68	1572	1559.37	8.34	1573	1559.7	10.56	1570	1553.83	11.19
	50	rnd	1562	1554.07	2.48	1563	1554.47	2.89	1572	1554.77	3.9	1553	1553	0
	20	rnd	1568	1554.9	10.05	1578	1562.03	7.48	1577	1558.9	6.95	1573	1555.77	9.33
		2op	1566	1555.17	4.07	1562	1553.93	2.33	1569	1555.57	4.28	1553	1553	0

Table A.1008: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1555.7	10.99	1577	1554.13	12.09	1572	1555.43	11.5	1577	1553.13	14.23
		2op	1567	1554.67	2.76	1569	1559.07	4.89	1557	1553.17	0.75	1553	1553	0
	50	rnd	1573	1558.77	7.03	1576	1560.7	6.65	1568	1551.4	11.31	1573	1552.73	14.14
51	20	rnd	1555	1553.6	0.93	1572	1565.63	4.63	1567	1556.43	3.5	1555	1553.07	0.37
		2op	1578	1555.43	10.7	1576	1556.03	10.81	1578	1559.07	10.39	1575	1557.33	9.8
	50	rnd	1558	1553.8	1.42	1572	1563.47	6.16	1572	1558.67	5.25	1553	1553	0
	20	rnd	1574	1554.6	12.34	1577	1558.6	9.76	1577	1560.57	9.77	1571	1556	9.86
		2op	1558	1554.33	1.47	1573	1562.4	5.93	1572	1563.2	4.67	1557	1553.27	0.87

Table A.1009: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1572	1557.03	9.7	1573	1558.37	7.81	1573	1555.9	9.26	1580	1557.3	10.89
		2op	1570	1553.57	3.1	1555	1553.07	0.37	1553	1553	0	1553	1553	0
	50	rnd	1575	1558.47	9.16	1576	1559.27	8.28	1574	1558.1	10.57	1574	1553.93	10.01
51	20	rnd	1570	1554.1	3.63	1553	1553	0	1558	1553.17	0.91	1553	1553	0
		2op	1577	1559.3	8.7	1580	1558.5	9.03	1574	1559.07	8.97	1573	1555.37	10.5
	50	rnd	1563	1555.23	3.63	1563	1554.13	2.7	1571	1555.6	5	1553	1553	0
	20	rnd	1576	1560.07	9.95	1579	1561.07	8.3	1579	1559.8	7.99	1573	1555.77	10.71
		2op	1569	1554.23	3.91	1564	1554.2	2.85	1572	1554.33	4.03	1553	1553	0

Table A.1010: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1555.27	11.11	1575	1556.6	10.75	1576	1556.03	10.9	1574	1552.93	13.69
		2op	1558	1553.9	1.47	1569	1559.33	4.72	1562	1553.8	1.95	1553	1553	0
	50	rnd	1575	1557.8	8.38	1574	1556.8	10.6	1573	1557.47	7.86	1571	1553.97	12.12
51	20	rnd	1558	1553.8	1.49	1572	1564.6	5.08	1563	1554.93	2.39	1553	1553	0
		2op	1577	1558.8	11.59	1574	1554.33	13.46	1572	1555.13	10.77	1570	1551.1	13.85
	50	rnd	1556	1553.77	1.14	1573	1563.2	5.35	1566	1557.73	3.55	1553	1553	0
	20	rnd	1572	1556.17	9.6	1572	1557.37	10.56	1572	1554.4	11.22	1578	1557.07	12.3
		2op	1556	1553.93	1.11	1572	1564.63	4.94	1572	1563.1	5.03	1563	1553.6	2.04
	50	rnd	1572	1556.17	9.6	1572	1557.37	10.56	1572	1554.4	11.22	1578	1557.07	12.3

Table A.1011: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1580	1558.57	9.1	1574	1555.13	11.6	1573	1553.13	14.47	1570	1554.07	11.52
		2op	1568	1555.2	4.53	1565	1555.43	4.24	1553	1553	0	1553	1553	0
	50	rnd	1574	1558.77	8.72	1572	1559.07	7.79	1578	1556.23	8.91	1570	1558.23	10.79
51	20	rnd	1564	1554.2	2.55	1562	1553.43	1.72	1553	1553	0	1553	1553	0
		2op	1577	1559	7.76	1576	1560.83	6.57	1575	1557.7	10.63	1574	1554.6	10.49
	50	rnd	1564	1556.63	2.63	1571	1565.27	3.89	1559	1553.57	1.57	1553	1553	0
	20	rnd	1572	1559.1	7.37	1573	1559.03	7.17	1576	1556.27	8.9	1577	1559.17	9.12
		2op	1568	1558.6	4.54	1569	1558.77	5.09	1553	1553	0	1553	1553	0
	50	rnd	1572	1559.1	7.37	1573	1559.03	7.17	1576	1556.27	8.9	1577	1559.17	9.12

Table A.1012: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1558.63	7.84	1576	1556.07	11.59	1568	1552.5	16.38	1571	1551.67	14.01
		2op	1558	1554.07	1.28	1558	1554.17	1.23	1563	1553.33	1.83	1553	1553	0
	50	rnd	1570	1555.27	9.21	1578	1558.87	9.79	1572	1558.4	10.1	1577	1555.4	11.85
51	20	rnd	1558	1554.8	1.35	1558	1554.47	1.2	1555	1553.07	0.37	1553	1553	0
		2op	1571	1555.87	13.41	1571	1555.87	11.44	1570	1555.4	11.17	1568	1552.77	10.66
	50	rnd	1558	1554.4	1.22	1560	1555.13	1.14	1555	1553.13	0.51	1553	1553	0
	20	rnd	1574	1558.8	9.81	1570	1554.87	9.79	1571	1555.4	12.59	1573	1555.33	12.57
		2op	1564	1555.57	2.42	1564	1555.73	2.41	1557	1553.2	0.81	1553	1553	0
	50	rnd	1574	1558.8	9.81	1570	1554.87	9.79	1571	1555.4	12.59	1573	1555.33	12.57

Table A.1013: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1553.3	10.49	1569	1555.2	7.87	1566	1550.1	12.51	1565	1548.37	11.71
		2op	1563	1536	10.72	1564	1536.23	10.46	1531	1531	0	1531	1531	0
	50	rnd	1571	1552.67	9.59	1570	1555.2	7.2	1564	1553.77	8.77	1564	1551.73	9.46
51	20	rnd	1558	1534.23	8.46	1563	1539.47	12.56	1561	1533.37	7.37	1531	1531	0
		2op	1567	1553.93	10.9	1571	1554.67	9.62	1570	1556.4	7.84	1570	1550.67	10.04
	50	rnd	1561	1539.9	11.66	1565	1546.17	12.15	1567	1547.03	12.9	1531	1531	0
	20	rnd	1570	1551.4	7.72	1567	1555.2	7.63	1568	1557.8	5.94	1567	1550.57	11.79
		2op	1566	1541.63	13.81	1565	1548.77	12.61	1569	1551.43	11.61	1550	1531.63	3.47

Table A.1014: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1542	15.66	1570	1548.1	12.66	1566	1548.37	12.2	1568	1547.53	9.28
		2op	1531	1531	0	1560	1536.53	9.83	1531	1531	0	1531	1531	0
	50	rnd	1563	1542.9	12.22	1569	1551.87	11.75	1569	1554.6	10.57	1564	1549.67	10.32
51	20	rnd	1531	1531	0	1560	1543.1	10.09	1532	1531.03	0.18	1531	1531	0
		2op	1563	1543.5	11.97	1565	1549.57	10.44	1568	1555.13	8.17	1569	1552.27	10.55
	50	rnd	1531	1531	0	1563	1540.27	10.14	1556	1533.63	6.53	1531	1531	0
	20	rnd	1563	1543.6	12.79	1566	1546.63	11.06	1567	1549	12.45	1568	1551.47	12.71
		2op	1531	1531	0	1566	1536.47	9.47	1565	1537.33	9.13	1531	1531	0

Table A.1015: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1551.43	10.42	1569	1556.23	9.1	1569	1549.57	11.03	1566	1545.67	11.58
		2op	1557	1534.33	8.67	1562	1536.93	11.18	1531	1531	0	1531	1531	0
	50	rnd	1566	1554.5	9.5	1570	1554	7.47	1568	1552.67	9.01	1567	1546.6	13.18
51	20	rnd	1560	1533.47	7.6	1562	1535.97	10.19	1531	1531	0	1531	1531	0
		2op	1565	1552.83	8.17	1568	1550.8	9.13	1569	1553.3	8.46	1564	1552.73	7.95
	50	rnd	1564	1537.4	11.01	1566	1544.47	12.41	1566	1541.37	13.38	1531	1531	0
	20	rnd	1565	1553.8	8.51	1568	1555.23	9.09	1568	1557.1	7.27	1566	1554.23	12.49
		2op	1563	1540.9	13.55	1568	1548.17	14.06	1568	1552.03	11.79	1531	1531	0

Table A.1016: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1543.43	11.3	1566	1551.33	9.91	1565	1547.37	15.16	1567	1550.73	10.18
		2op	1531	1531	0	1565	1536.07	9.76	1531	1531	0	1531	1531	0
	50	rnd	1561	1544.97	11.3	1563	1553.07	7.76	1569	1550.47	10.01	1569	1551.57	10.49
51	20	rnd	1531	1531	0	1565	1547.03	12.7	1540	1531.3	1.64	1531	1531	0
		2op	1565	1540.07	12.04	1564	1549.97	10.16	1565	1551.87	9.8	1567	1549	11.02
	50	rnd	1531	1531	0	1561	1540.73	10.6	1556	1533.43	6.25	1531	1531	0
	20	rnd	1566	1547.57	12.42	1567	1547.97	11.82	1566	1550.23	9.58	1562	1547.63	9.81
		2op	1531	1531	0	1555	1536.57	8.37	1566	1538.83	10.56	1531	1531	0

Table A.1017: f_{50_412} : transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1551.1	10.81	1568	1557.27	5.25	1564	1547.63	10.01	1570	1550.9	10.4
		2op	1569	1538.67	12.63	1573	1550.5	12.28	1531	1531	0	1531	1531	0
	50	rnd	1570	1551.57	7.61	1570	1556.8	8.08	1566	1548	13.9	1560	1545.33	11.21
51	20	rnd	1570	1540.37	13.31	1569	1544.3	15.08	1531	1531	0	1531	1531	0
		2op	1572	1555.4	9.51	1570	1556.23	9.55	1564	1550.5	9.92	1567	1550.73	9.67
	50	rnd	1564	1551.77	8.32	1565	1555.9	3.9	1561	1533.77	8.48	1531	1531	0
	20	rnd	1567	1554.93	8.76	1568	1555.2	7.92	1569	1554.33	10.91	1571	1551.27	11.24
		2op	1565	1552.73	10.4	1565	1553.63	8.76	1531	1531	0	1531	1531	0

Table A.1018: f_{50_412} : basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1561	1542.97	10.46	1567	1549.37	10.66	1569	1548.63	9.89	1566	1546.2	13.04
		2op	1531	1531	0	1531	1531	0	1531	1531	0	1531	1531	0
	50	rnd	1565	1546.13	10.84	1569	1549.2	12.85	1563	1547.23	12.29	1569	1546.7	11.46
51	20	rnd	1531	1531	0	1540	1531.3	1.64	1531	1531	0	1531	1531	0
		2op	1565	1548.6	11.72	1566	1551.97	8.79	1568	1550.03	12.66	1570	1551.2	12.33
	50	rnd	1531	1531	0	1540	1531.3	1.64	1531	1531	0	1531	1531	0
	20	rnd	1565	1544.03	11.56	1565	1548.07	8.64	1568	1547.97	12.74	1565	1544.83	12.66
		2op	1531	1531	0	1531	1531	0	1531	1531	0	1531	1531	0

Table A.1019: f_{50_412} : transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1565	1548.8	9.33	1564	1553.57	6.07	1568	1547.3	9.19	1562	1547.33	8.82
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1563	1549.9	8.28	1565	1550.5	6.92	1566	1550.3	8.38	1561	1548.5	8.73
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1562	1550.57	8.11	1566	1550.5	9.3	1565	1551.33	7.87	1562	1549.47	9.47
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1561	1549.27	8.37	1562	1550.23	6.73	1563	1551.77	7.55	1564	1548.3	9.23
		2op	1550	1548.07	0.37	1550	1548.13	0.51	1550	1548.07	0.37	1548	1548	0

Table A.1020: f_{50_498} : basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1558	1547.3	8.48	1566	1550.27	8	1567	1547.8	9.26	1565	1548.53	7.4
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1562	1547.93	9.28	1565	1548.8	7.48	1566	1550	9.87	1561	1551.47	6.48
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1559	1545.77	8.34	1565	1549.27	9.87	1567	1548.63	10.98	1559	1548.03	7.21
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1565	1548.27	9.15	1564	1549	7.31	1568	1549.07	8.66	1566	1549.5	8.96
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0

Table A.1021: f_{50_498} : transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1549.67	10.98	1564	1549.23	9.9	1563	1549.9	9.51	1563	1547.27	8.66
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1565	1546.3	9.63	1563	1550.93	7.16	1560	1548.83	8.52	1563	1546.9	10.66
		2op	1548	1548	0	1556	1548.27	1.46	1548	1548	0	1548	1548	0
51	20	rnd	1562	1548.9	10.7	1565	1551.77	7.3	1565	1546.97	8.35	1564	1548.43	8.79
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1563	1550.17	7.33	1568	1550.83	9.07	1565	1551.97	10.29	1561	1549.77	7.32
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0

Table A.1022: f_{50_498} : basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1561	1545.77	9.94	1566	1547.7	9.69	1567	1547.53	11.36	1567	1551	8.52
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1558	1546.33	7.64	1565	1548.5	8.41	1565	1547.3	11.87	1564	1550.43	9.27
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1566	1547.1	8.81	1566	1547.27	9.63	1568	1549.13	9.03	1565	1543.83	13.08
	50	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	20	rnd	1561	1547.4	8.4	1566	1551.17	6.85	1564	1548	8.9	1563	1549.87	7.2
		2op	1548	1548	0	1548	1548	0	1550	1548.13	0.51	1548	1548	0

Table A.1023: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1552.73	8.31	1565	1550.77	10.16	1568	1547.73	10.51	1565	1548.47	10.21
		2op	1548	1548	0	1550	1548.07	0.37	1548	1548	0	1548	1548	0
	50	rnd	1567	1548.1	7.48	1564	1552.63	6.17	1566	1547.43	10.62	1562	1547.4	9.25
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1565	1550.57	8.08	1563	1553.23	7.76	1565	1547.73	10.14	1564	1547.47	11.39
	50	rnd	1550	1548.07	0.37	1550	1548.87	1.01	1548	1548	0	1548	1548	0
	20	rnd	1567	1548.57	7.96	1570	1552.33	8.53	1565	1548.33	8.47	1562	1547.57	9.65
		2op	1550	1548.13	0.51	1550	1548.13	0.51	1548	1548	0	1548	1548	0

Table A.1024: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1545.97	9.85	1559	1547	8.21	1560	1543.6	10.77	1566	1548.53	8.9
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1564	1547	8.09	1563	1550	8.94	1565	1549.53	9.82	1564	1546.97	10.68
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1558	1546.9	6.5	1562	1546.6	11.81	1566	1547.73	8.39	1565	1548.07	10.01
	50	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	20	rnd	1564	1547.53	7.87	1560	1544.17	9.46	1566	1548.57	8.95	1568	1546.17	10.18
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0

Table A.1025: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2775	2745.43	12.37	2771	2746.93	12.52	2771	2742.87	15.5	2757	2740.63	10.76
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2759	2741.7	10.47	2758	2742.2	12.08	2764	2741.27	12.31	2765	2742.07	13.61
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2768	2741.37	12.51	2762	2745.47	9.22	2767	2740.8	14.58	2764	2736.3	14.14
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2771	2747.43	11.83	2764	2745.03	12.43	2763	2741.27	9.71	2763	2743.03	9.73
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1026: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2762	2739.93	11.6	2780	2743.2	15.47	2758	2736.83	12.41	2767	2735.77	15.51
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2763	2741.9	12.86	2765	2741.13	12.04	2771	2746.7	13.43	2763	2733.1	12.9
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2767	2741.37	15.33	2771	2745.07	13.38	2764	2738.07	15.62	2773	2738.73	17.81
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2762	2735.7	17.59	2766	2742.03	14.95	2767	2740.5	11.45	2772	2741.27	15
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1027: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2769	2744.13	18.01	2770	2743.97	13.74	2766	2741.4	13.77	2766	2746.3	10.41
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2746.87	12.22	2768	2741.8	12.79	2765	2742.2	13.94	2763	2743.27	12.24
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2764	2739.07	13.93	2774	2743.77	14.69	2763	2742.63	9.87	2767	2740.3	14.69
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2742.37	11.93	2770	2745.67	10.48	2760	2741.83	9.08	2762	2740.23	16.01
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1028: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2773	2740.47	17.39	2764	2740.67	14.86	2761	2741.47	11.95	2766	2741.37	19.15
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2772	2742.53	11.68	2761	2739.87	15.75	2761	2742.83	11.19	2768	2740.03	15.66
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2770	2739.2	13.97	2762	2739.87	15.91	2759	2737.03	15.24	2770	2739.6	18.61
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2775	2739.57	12.79	2772	2740.17	19.26	2767	2742.3	13.43	2759	2741.6	12.01
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1029: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2766	2745.63	12.84	2771	2742.47	13.99	2760	2740.33	12.4	2765	2738.1	14.19
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2763	2741.43	12.74	2766	2742.23	14.44	2761	2743.03	10.45	2763	2736.83	13.97
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2769	2746.37	14.21	2766	2746.27	9.4	2766	2744.27	12.45	2768	2743.83	15.24
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2769	2748.07	12.73	2763	2743.77	11.5	2764	2744.3	12.49	2761	2739.5	12.81
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1030: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2765	2740.83	13.99	2767	2743	14.82	2767	2744.6	14.09	2770	2741.4	13.37
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2739.73	12.51	2766	2743.4	11.52	2772	2742.53	15.67	2763	2743.23	11.83
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2767	2738.87	16.12	2757	2737.37	13.92	2768	2738.93	17.31	2773	2740.37	14.28
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2759	2737.43	18.67	2759	2739.83	11.53	2769	2740.83	15.59	2773	2742.83	13.22
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1031: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2810.7	14.63	2843	2814.37	14.41	2837	2814.13	15.34	2839	2813.9	12.79
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2837	2815.63	11.82	2838	2817.2	9.24	2840	2812.57	12.91	2835	2811.07	12.23
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2831	2813.33	12.46	2835	2818.8	12.93	2835	2810.7	18.77	2844	2811.87	12.11
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2837	2813.9	10.56	2838	2813	14.67	2832	2814.43	10.66	2842	2815.47	13.99
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.1032: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2834	2810.1	14.44	2838	2814.1	13.2	2845	2809.4	16.84	2835	2808.7	12.44
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2837	2813.87	16.35	2830	2811.4	14.13	2834	2807.53	17.03	2837	2805.97	14.87
		2op	2804	2804	0	2810	2807.2	3.04	2810	2804.2	1.1	2804	2804	0
51	20	rnd	2834	2809.7	14.7	2842	2815.6	9.57	2844	2813.63	12.79	2837	2809.1	16.26
		2op	2804	2804	0	2810	2806.8	3.04	2810	2804.6	1.83	2804	2804	0
	50	rnd	2827	2808.7	10.57	2837	2811.73	18.95	2834	2812.4	12.84	2829	2806.13	12.85
		2op	2804	2804	0	2810	2806.8	3.04	2810	2805.6	2.7	2804	2804	0

Table A.1033: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2836	2814.27	12.29	2837	2810.27	15.73	2838	2814.8	14.12	2837	2814.8	10.91
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2839	2815.5	12.86	2840	2817.27	10.52	2840	2814.5	14.17	2843	2812.33	11.7
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2837	2814.83	13.12	2848	2819.23	13.25	2836	2812.47	13.27	2833	2810.93	14.23
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2839	2812	15.11	2838	2815.6	14.18	2842	2815.5	12.56	2838	2812.47	17.08
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.1034: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2827	2813.33	10.91	2830	2810.43	15.93	2838	2810.03	16.83	2838	2809.8	16.1
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2828	2813.37	8.71	2829	2813.1	9.13	2846	2812.37	16.9	2845	2813.27	13.93
51	20	rnd	2804	2804	0	2810	2805.8	2.8	2804	2804	0	2804	2804	0
		2op	2833	2807.73	14.14	2832	2812.53	14.3	2838	2810.37	13.69	2838	2814.4	10.51
	50	rnd	2804	2804	0	2810	2806	2.88	2810	2804.4	1.52	2804	2804	0
	20	rnd	2842	2808.77	12.38	2835	2811.57	16.53	2838	2813.83	15.64	2836	2813.47	11.78
		2op	2804	2804	0	2810	2807.2	3.04	2810	2805.4	2.58	2804	2804	0

Table A.1035: f_{100_415} : transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2815.5	13.96	2835	2810.17	13.51	2837	2811.47	13.81	2825	2805.8	13.12
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2841	2814.5	14.51	2842	2815.57	14.3	2835	2805.03	15.11	2835	2814.8	11.06
51	20	rnd	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
		2op	2835	2814.77	11.36	2838	2816.23	15.99	2835	2811.67	13.78	2842	2814.87	15.36
	50	rnd	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
	20	rnd	2842	2817.2	13.78	2838	2817.8	12.26	2834	2813.77	12.71	2845	2811.83	16.74
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.1036: f_{100_415} : basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2837	2810.47	16.11	2833	2807.57	17.14	2833	2813.1	12.89	2833	2809.67	15.24
		2op	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
	50	rnd	2839	2809.97	15.41	2839	2811.97	14.07	2840	2811.47	11.83	2837	2811.77	12.66
51	20	rnd	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
		2op	2836	2811.07	13.13	2842	2810.2	13.18	2839	2809.77	17.31	2835	2810.37	13.57
	50	rnd	2804	2804	0	2810	2804.6	1.83	2804	2804	0	2804	2804	0
	20	rnd	2836	2811.63	9.95	2838	2807.2	13.97	2836	2814.77	10.4	2847	2811.97	15.89
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0

Table A.1037: f_{100_415} : transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2682.97	12.42	2718	2688.87	15.28	2705	2686.83	11.3	2709	2684.5	13.12
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2708	2685.5	12.61	2708	2685.87	13.31	2704	2681.97	13.66	2710	2683.67	13.6
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
51	20	rnd	2712	2683.77	13.71	2700	2686.17	9.48	2705	2685.6	14.7	2709	2683.37	10.8
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2711	2690.43	13.68	2713	2688.63	11.68	2707	2684.73	14.17	2699	2680.3	15.67
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0

Table A.1038: f_{100_512} : basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2709	2682.07	13.94	2710	2683.53	14.76	2714	2686.57	14.43	2702	2680.13	14.46
		2op	2700	2690.13	4.28	2698	2689.9	3.98	2687	2687	0	2687	2687	0
	50	rnd	2700	2683.37	13.28	2710	2684.37	17.53	2716	2683.37	11.39	2708	2687.77	11.23
		2op	2706	2690.83	5.23	2702	2695.63	3.05	2695	2687.27	1.46	2687	2687	0
51	20	rnd	2706	2683.07	12.72	2711	2685.7	15.65	2715	2687.43	14.11	2706	2684.3	10.92
		2op	2697	2691.2	4.05	2700	2694.7	3.71	2699	2689.97	4.41	2687	2687	0
	50	rnd	2708	2678.43	14.62	2713	2683.13	18.89	2710	2684.67	12.44	2710	2682.93	13.94
		2op	2698	2692.1	4	2702	2695.67	1.75	2698	2693.67	2.96	2687	2687	0

Table A.1039: f_{100_512} : transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2713	2686.87	13.88	2706	2689.07	11.16	2707	2688.2	9.3	2703	2685.03	13.53
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2702	2685.6	11.51	2712	2693.47	11	2703	2686.97	12.54	2709	2682.37	13.88
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
51	20	rnd	2709	2688	11.42	2708	2684.97	11.7	2709	2683.2	15.57	2717	2685.5	16.35
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2708	2683.97	11.42	2712	2688.8	13.32	2705	2682.83	11.9	2703	2684.17	16.39
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0

Table A.1040: f_{100_512} : basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2700	2678.9	11.61	2713	2685.23	15.38	2710	2684.07	12.28	2706	2684.17	14.9
		2op	2699	2690.37	4.11	2699	2690.17	4.41	2687	2687	0	2687	2687	0
	50	rnd	2703	2684.07	11.43	2703	2683.47	10.51	2718	2683.87	12.34	2709	2682.33	14.12
51	20	2op	2698	2690.8	4.22	2706	2694.67	4.2	2698	2687.37	2.01	2687	2687	0
		rnd	2704	2679.5	12.68	2708	2685.97	13.7	2704	2682.23	13.35	2698	2678.97	14.18
	50	2op	2700	2691	4.5	2700	2694.47	3.23	2704	2690.27	5.03	2687	2687	0
	20	rnd	2703	2679.27	13.84	2708	2685.97	14.42	2707	2687.6	12.16	2707	2687.33	12.29
		2op	2698	2691.83	4.07	2700	2695.93	1.51	2700	2693.23	4.45	2687	2687	0
	50	rnd	2703	2679.27	13.84	2708	2685.97	14.42	2707	2687.6	12.16	2707	2687.33	12.29
	50	2op	2698	2691.83	4.07	2700	2695.93	1.51	2700	2693.23	4.45	2687	2687	0

Table A.1041: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2707	2689.37	10.71	2714	2689.07	12.02	2710	2684.97	14.67	2701	2682.2	15.84
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2711	2688.4	13.69	2708	2684.6	15.89	2703	2684.63	13.24	2711	2685.67	11.35
51	20	2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
		rnd	2706	2685.93	12.66	2702	2688.43	8.88	2711	2686.83	15.97	2709	2683.83	12.16
	50	2op	2699	2690.53	4.55	2708	2693.27	6.15	2695	2687.27	1.46	2687	2687	0
	20	rnd	2709	2683.93	14.92	2702	2681.03	13.44	2710	2686.57	11.45	2713	2686.7	14.63
		2op	2696	2687.57	2.16	2696	2687.57	2.16	2687	2687	0	2687	2687	0
	50	rnd	2709	2683.93	14.92	2702	2681.03	13.44	2710	2686.57	11.45	2713	2686.7	14.63
	50	2op	2696	2687.57	2.16	2696	2687.57	2.16	2687	2687	0	2687	2687	0

Table A.1042: f_{100_512} : basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2705	2678.3	11.29	2708	2684.3	13.05	2707	2687.03	11.52	2711	2689.1	16.7
		2op	2700	2691.97	4.33	2700	2690.83	4.8	2687	2687	0	2687	2687	0
	50	rnd	2702	2682.13	10.54	2706	2684.3	13.31	2706	2686.33	13.65	2711	2686.7	13
51	20	2op	2698	2694.3	2.53	2698	2691.5	4.39	2695	2687.27	1.46	2687	2687	0
		rnd	2700	2678.83	13.61	2703	2676.73	16.45	2705	2688.47	8.96	2713	2684.53	12.4
	50	2op	2700	2693.63	3.92	2698	2694.1	2.95	2697	2687.53	2.1	2687	2687	0
	20	rnd	2698	2684	11.47	2708	2685.73	13.76	2715	2687.6	12.83	2716	2685.53	14.8
		2op	2696	2695.07	0.25	2699	2693.37	3.45	2695	2688	2.61	2687	2687	0
	50	rnd	2698	2684	11.47	2708	2685.73	13.76	2715	2687.6	12.83	2716	2685.53	14.8
	50	2op	2696	2695.07	0.25	2699	2693.37	3.45	2695	2688	2.61	2687	2687	0

Table A.1043: f_{100_512} : transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17882	17786.2	42.05	17841	17796.1	32.29	17871	17789.2	39.13	17863	17792.4	41.13
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17871	17807.37	32.64	17878	17798.63	36.52	17877	17803.53	41.03	17855	17782.07	37.76
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17857	17791.1	41.11	17876	17812.03	35.42	17834	17786.23	41.81	17848	17785.43	39.5
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17866	17801.43	38.79	17869	17792.57	39.73	17878	17799.2	47.72	17889	17802.93	49.79
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1044: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17870	17791.77	36.7	17886	17803	34.56	17887	17788.53	47.04	17845	17779.9	44.85
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17906	17800.47	45	17856	17799.73	35.11	17899	17799.47	35.64	17878	17785.33	46.37
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17899	17802.9	38.21	17871	17798.8	34.96	17866	17793.8	42.53	17860	17796.47	36.81
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17859	17792.17	35.18	17847	17781.93	38.19	17921	17808.7	37.78	17876	17791	48.27
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1045: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17844	17790.5	29.01	17910	17801.73	44	17880	17794.73	46.31	17887	17806.9	31.33
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17886	17803.37	36.65	17879	17804.57	36.42	17882	17815.67	30.07	17843	17789.63	32.32
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17925	17796.87	41.37	17868	17797	43.42	17887	17792.33	47.55	17868	17796.07	36.27
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17853	17796.07	33.06	17861	17801.5	33.06	17898	17808.4	30.79	17833	17792.77	34.09
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1046: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17880	17792.03	40.22	17880	17804.97	33.95	17886	17787.7	45.68	17882	17796.63	40.29
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17861	17798.4	33.86	17850	17798.53	31.82	17884	17790.37	44.28	17877	17796.9	45.64
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17897	17797.2	39.64	17861	17796.23	35.58	17866	17793.8	41.1	17863	17800.83	36.76
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17921	17803.57	41.35	17876	17793.77	44.69	17866	17783	44.78	17893	17808.33	41.73
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1047: $f_{508.354}$: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17879	17798.03	37.31	17899	17790.47	53.04	17880	17790.57	40.15	17866	17795.7	37.21
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	rnd	17865	17800.23	28	17859	17809.8	30.08	17901	17814.67	40.25	17888	17806.53
	20	2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17865	17804.77	32.95	17862	17802.3	27.88	17849	17797	36.03	17906	17810.43	39.77
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	rnd	17836	17782.27	32.19	17874	17789.47	36.63	17853	17790.17	31.19	17867	17801.9
	20	2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1048: $f_{508.354}$: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17853	17797.6	40.81	17877	17789.93	35.25	17843	17788.17	32.32	17862	17793.07	43.34
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17868	17797.23	44.88	17883	17806.77	36.28	17866	17800.07	29.95	17881	17793.03	46.05
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17841	17789.63	38.56	17834	17782.23	31.52	17904	17785.93	43.57	17883	17795.3	43.21
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17899	17797.63	44.4	17851	17800.33	31.84	17861	17803.53	32.55	17872	17798.73	37.59
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1049: $f_{508.354}$: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22138	22071.3	45.43	22170	22064.8	43.43	22183	22056.63	48.21	22133	22060.53	36.71
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22167	22082.03	39.55	22143	22070.47	43.39	22161	22075.33	47.57	22170	22080.4	39.39
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22164	22082	51.82	22146	22066.33	34.85	22170	22065.7	44.12	22193	22066.6	54.18
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22137	22069.23	43.42	22143	22057.6	48.01	22139	22065.53	46.61	22202	22084.37	46.51
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1050: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22166	22068.7	38.72	22124	22045.63	51.44	22139	22066.67	39.99	22154	22049.23	46.84
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22137	22063.8	53.57	22180	22076.07	47.99	22141	22059.43	50.97	22129	22064.27	35.39
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22138	22068.4	38.27	22178	22072.13	52.6	22133	22064.53	40.4	22123	22064.33	41.55
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22175	22065.27	54.99	22162	22065.77	38.94	22146	22061.5	42.27	22171	22066.8	48.14
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1051: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22140	22059.03	36.75	22184	22082.97	46.58	22146	22057.5	46.54	22145	22065.43	42.4
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22141	22068.53	46.9	22145	22060.7	37.7	22155	22067.73	51.82	22161	22070.83	43.84
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22144	22071.83	43.05	22157	22073.23	43.72	22183	22055.93	44.98	22144	22067.37	43.53
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22120	22066.67	35.27	22136	22065.27	45.87	22143	22047	58.62	22155	22060.2	46.45
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1052: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22163	22078.77	47.16	22160	22080.27	45.12	22130	22050	42.62	22133	22053.47	42.87
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22162	22057	46.54	22134	22058.33	42.67	22148	22055.83	45.7	22135	22063.97	41.79
51	20	rnd	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
		2op	22192	22068.07	47.16	22155	22073.33	51.26	22146	22065.43	42.14	22154	22061.8	50.3
	50	rnd	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	20	rnd	22148	22064.6	43.2	22160	22058.07	45.14	22168	22067.17	35.91	22168	22071.2	43.66
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1053: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22178	22084.53	48.81	22150	22075.37	52.84	22203	22078.03	50.14	22133	22049.13	43.7
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22163	22065.93	48.08	22153	22060.87	52.35	22130	22048.6	45.97	22128	22056.87	47.98
51	20	rnd	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
		2op	22199	22068.6	47.82	22199	22068.6	47.82	22143	22067.33	44.74	22200	22068.97	60.78
	50	rnd	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	20	rnd	22155	22076.93	44.65	22155	22078.97	42.31	22154	22072.8	43.81	22166	22062.43	45.63
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1054: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22164	22058.03	51.71	22155	22063.5	43.82	22137	22065.53	38.39	22220	22069	53.22
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22136	22061.77	35.82	22128	22063.03	44.63	22176	22077.53	40.82	22157	22060.33	47.29
51	20	rnd	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
		2op	22142	22076.33	44.3	22158	22068.6	49.43	22182	22087.17	43.58	22146	22066.73	47.13
	50	rnd	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	20	rnd	22128	22042.77	54.62	22169	22065.13	39.38	22176	22065.6	46.62	22148	22060.73	48.87
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1055: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24737	24662.73	44.97	24747	24639.5	56.87	24752	24672.57	49.29	24776	24660.43	50.57
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24759	24667.47	51.05	24771	24656.47	51.22	24728	24664.8	39.58	24747	24655.83	41.04
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24782	24673.73	50.69	24791	24669.97	50.42	24744	24664.77	52.91	24746	24655.37	44.26
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24777	24664.43	53.11	24746	24674.87	36.95	24795	24653.17	57.01	24746	24653.8	46.42
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1056: f_{737_355} : basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24735	24674.03	43.38	24731	24659.37	49.11	24762	24667.8	51.36	24741	24671.9	43.3
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24754	24651.7	60.03	24775	24656.33	39.57	24732	24663.2	40.92	24764	24683.3	43.68
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24808	24662.53	65.95	24731	24665.37	34.7	24790	24681.97	49.91	24747	24658.4	48.67
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24742	24655.17	49.91	24767	24664.9	48.45	24754	24658.63	51.39	24746	24671.27	47.59
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1057: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24770	24680.73	38.89	24744	24665.7	55.27	24752	24660.63	59.78	24772	24673.63	46.01
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24752	24663.53	50.09	24727	24665.1	38.52	24771	24647.43	62.5	24778	24664.53	54.67
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24763	24674.6	47.46	24770	24665.4	53.88	24800	24659.97	49.22	24746	24662	54.21
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24775	24683.23	49.99	24730	24671.83	38.58	24767	24679.8	42.61	24760	24675.63	53.21
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1058: f_{737_355} : basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24753	24667.9	54.58	24771	24682.13	50.59	24762	24668.57	53.11	24784	24665.27	51.19
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24729	24661.23	40.52	24744	24670.93	41.89	24788	24661.23	48.81	24754	24669.67	41.53
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24747	24667.6	49.15	24788	24678.7	46.57	24781	24663.57	53.57	24734	24666.8	46.16
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24745	24664.7	49.48	24811	24683.17	62.38	24812	24659	53.61	24736	24649.9	41.68
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1059: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24757	24675.83	47.13	24732	24657.53	41.06	24720	24640.67	46.92	24754	24657.37	43.04
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24739	24651.23	53.09	24732	24652.4	45.58	24759	24657.27	56.2	24751	24675.67	32.95
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24782	24672.13	54.39	24782	24672.13	54.39	24766	24673.33	52.29	24797	24667.97	61.86
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24754	24674.3	41.95	24754	24674.3	41.95	24757	24650.8	53.14	24734	24661.07	34.91
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1060: f_{737_355} : basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24809	24674.27	43.08	24787	24666.63	43.53	24750	24659.13	57.33	24796	24681.93	53.35
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24727	24646.43	41.62	24742	24662.17	45.47	24771	24656.37	59.25	24750	24666.93	45.65
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24778	24664.87	53.45	24755	24674.7	51.6	24775	24657.97	49.92	24729	24642.2	48.06
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24749	24661.1	46	24778	24668.43	44.53	24791	24672.3	52.43	24757	24665.63	49.5
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1061: f_{737_355} : transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47970	47857.6	61.56	47974	47860.57	83.4	47985	47841.37	83.33	48016	47857.93	80.98
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48057	47894.67	84.9	47986	47856.03	77.18	48017	47836	76.2	48025	47848.67	70.98
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	48067	47877.27	70.49	48067	47868.37	89.96	47960	47867.07	67.08	48024	47849.87	72.61
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48042	47865.43	71.56	48096	47840.37	97.09	48030	47855.27	79.85	48029	47847.23	90.2
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1062: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48003	47857.47	99.4	47998	47840.37	91	47965	47832.73	69.6	47964	47815.27	76.6
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47997	47846.03	83.05	47970	47854.77	63.47	47983	47837.47	66.1	47994	47866.53	59.53
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	47959	47815.17	67.55	47973	47863.53	67.3	48090	47831.73	108.29	47999	47810	102.62
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48012	47852.37	88.23	48002	47834.47	75.25	47957	47856.5	71.38	47979	47846.3	79.58
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1063: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48033	47858.03	76.76	48077	47848.13	100.18	47967	47832.2	79.98	47971	47849.3	83.01
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48000	47861.3	84.69	48025	47861.37	72.3	48032	47823.83	101.51	48043	47863.1	87.03
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	48051	47907.73	77.27	47993	47864.2	76.6	47960	47831.37	75.98	48098	47871.6	92.92
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48021	47851.93	80.68	47990	47861.6	68.72	47940	47824.3	60.56	47979	47849.33	73.33
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1064: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47993	47850.57	75.47	48010	47877.1	74.91	48003	47828.13	114.68	48041	47867.13	74.19
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47982	47856.47	81.14	48081	47850.5	73.37	48033	47860.53	87.26	47993	47858.43	86.78
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48059	47876	88.89	47978	47843.5	76.05	47970	47867	63.03	47996	47857.13	84.33
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48016	47851.97	74.44	47948	47848.83	67.03	48029	47825.8	63.68	48027	47845.27	96.44
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1065: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48002	47844.03	68.81	48002	47844.03	68.81	47998	47865.57	70.59	48008	47838.6	81.28
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47964	47864.73	63.01	47964	47864.73	63.01	47983	47848.3	68.07	47998	47858.77	61.59
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48035	47861	70.01	48035	47861	70.01	47962	47856.27	61.44	47942	47832.03	60.48
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48042	47841.27	77.04	48042	47841.27	77.04	47976	47809.13	85.75	47991	47810.1	89.97
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1066: f_{1343_354} : basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48067	47865.93	79.66	47977	47860.63	76.74	47978	47866.5	67.57	47976	47854.8	59.08
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47965	47854.07	64.58	47957	47855.57	70.13	48090	47887.67	82.34	47966	47838.6	63.15
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48092	47864.67	79.98	48092	47864.67	79.98	48112	47844.97	110.85	47945	47840.17	60.56
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47995	47860.03	93.25	47990	47844.83	80.31	48015	47871.93	64.9	48039	47866.63	91.73
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1067: f_{1343_354} : transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56133	55944.5	86.47	56108	55940.9	94.81	56055	55922.33	79.46	56131	55911.13	113.25
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56124	55930.8	81.75	56130	55927.27	102.67	56098	55902.5	89.02	56205	55937.6	104.6
51	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	56100	55935.07	82.69	56086	55939.1	83.46	56147	55900.13	85.57	56088	55925.9	71.94
	50	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	20	rnd	56151	55970.2	79.4	56144	55959.33	88.91	56105	55913.97	85.75	56045	55929.27	67.48
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1068: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56093	55893.87	103.21	56148	55945	80.61	56182	55942.17	98.7	56047	55916.13	85
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56152	55916	105.66	56131	55959.53	72.93	56110	55936.77	76.84	56051	55898.37	77.95
51	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	56065	55928.83	83.98	56104	55955.53	72.05	56120	55945.33	80.11	56077	55903.77	83.29
	50	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	20	rnd	56030	55909.7	59.99	56057	55941.67	87.74	56083	55909.87	72.49	56168	55943.4	116.23
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1069: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56168	55962.37	104.1	56088	55941.73	88.05	56080	55927.8	74.91	56125	55936.5	96.18
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56172	55960.07	92.73	56066	55931.37	76.16	56083	55955.5	81.91	56029	55916	87.14
51	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	56099	55953.03	78.58	56098	55965	83.41	56168	55952.97	96.98	56068	55935.03	84.74
	50	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	20	rnd	56099	55933.73	76.18	56177	55936	89.32	56073	55933.33	80.87	56092	55925.3	73.22
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1070: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56139	55909.33	104.41	56107	55949.2	80.46	56020	55898.47	69.87	56155	55955.43	91.27
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56114	55947.03	86.19	56147	55923.97	84.33	56086	55908.3	84.58	55996	55914.43	64.7
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56108	55933.53	89.43	56092	55926.57	82.01	56091	55914.23	75.41	56109	55929.4	102.67
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56120	55946.63	82.67	56170	55908.63	89.4	56083	55945.7	60.2	56137	55959.2	78.54
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1071: f_{1577_354} : transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56123	55919.67	87.96	56123	55919.67	87.96	56129	55913.2	84.72	56070	55951.27	71.9
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56195	55923.87	111.28	56195	55923.87	111.28	56103	55914.03	84.23	56053	55928.33	69.87
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56193	55940.7	96.72	56193	55940.7	96.72	56091	55940.33	90.3	56061	55941.63	69.33
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56062	55915.77	74.41	56062	55915.77	74.41	56074	55928.83	69.66	56115	55956.57	79.61
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1072: f_{1577_354} : basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56143	55942.57	98.83	56139	55931.73	78.41	56100	55948.57	85.87	56075	55925.97	87.59
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56069	55937.1	100.55	56076	55938.93	75.2	56077	55947.6	69.34	56159	55938.77	86.67
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56059	55947.2	70.21	56059	55947.2	70.21	56060	55940.7	70.49	56136	55945.4	84.8
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56146	55944	88.23	56146	55942.13	75.78	56175	55940	97.49	56091	55929.03	98.32
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1073: f_{1577_354} : transRRGA+IM – Suspected Optimal is 57373

Results With No Post on Large Real World Problem Instances

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
51	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
101	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0

Table A.1074: *COL*: basicRRGA – Suspected Optimal is 8345841

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	5287198	5263674.63	12805.55	5287198	5263674.63	12805.55	5287198	5263674.63	12805.55	5258218	5077018.03	118522.12
	50	rnd	5548184	5523105.07	11859.17	5548184	5523105.07	11859.17	5548184	5523105.07	11859.17	5544133	5463798.37	60063.32
51	20	rnd	5132699	5092742.77	18025.5	5132699	5092742.77	18025.5	5132699	5092742.77	18025.5	5132699	5092742.77	18025.5
	50	rnd	5236843	5206842.13	13796.55	5236843	5206842.13	13796.55	5236843	5206842.13	13796.55	5236843	5206842.13	13796.55
101	20	rnd	4919353	4890356.47	14928.53	4919353	4890356.47	14928.53	4919353	4890356.47	14928.53	4919353	4890356.47	14928.53
	50	rnd	5020476	4986755.33	15922.1	5020476	4986755.33	15922.1	5020476	4986755.33	15922.1	5020476	4986755.33	15922.1

Table A.1075: *COL*: transRRGA – Suspected Optimal is 8345841

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
51	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
101	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0

Table A.1076: *COL*: basicRRGA+RS – Suspected Optimal is 8345841

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	5269146	5244554.83	12493.12	5269146	5244554.83	12493.12	5269146	5244554.83	12493.12	5197069	5039815.67	102458.93
	50	rnd	5520975	5487050.43	14035.44	5520975	5487050.43	14035.44	5520975	5487050.43	14035.44	5520975	5409440.6	80043.76
51	20	rnd	5109242	5080525.6	12976.6	5109242	5080525.6	12976.6	5109242	5080525.6	12976.6	5109242	5080525.6	12976.6
	50	rnd	5229481	5198478.07	14478.87	5229481	5198478.07	14478.87	5229481	5198478.07	14478.87	5229481	5198478.07	14478.87
101	20	rnd	4922915	4885896.07	14209.69	4922915	4885896.07	14209.69	4922915	4885896.07	14209.69	4922915	4885896.07	14209.69
	50	rnd	5018749	4978202.37	16100.65	5018749	4978202.37	16100.65	5018749	4978202.37	16100.65	5018749	4978202.37	16100.65

Table A.1077: *COL*: transRRGA+RS – Suspected Optimal is 8345841

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
51	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
101	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0

Table A.1078: *COL*: basicRRGA+IM – Suspected Optimal is 8345841

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4476848	4462690.13	6248.89	4476848	4462690.13	6248.89	4476848	4462690.13	6248.89	4476848	4462690.13	6248.89
51	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
101	20	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0
	50	rnd	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0	4458492	4458492	0

Table A.1079: *COL*: transRRGA+IM – Suspected Optimal is 8345841

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
	50	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
51	20	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
	50	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
101	20	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
	50	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0

Table A.1080: *MW2*: basicRRGA – Suspected Optimal is 663208

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	445177	442228.3	1139.38	445177	442228.3	1139.38	445177	442228.3	1139.38	440831	430668.3	6957.43
	50	rnd	461582	459644.07	881.92	461582	459644.07	881.92	461582	459644.07	881.92	460644	455571.03	4505.01
51	20	rnd	430518	428468.83	1070.93	430518	428468.83	1070.93	430518	428468.83	1070.93	430518	428468.83	1070.93
	50	rnd	437826	436084.23	1018.53	437826	436084.23	1018.53	437826	436084.23	1018.53	437826	436084.23	1018.53
101	20	rnd	415550	413785.6	1034.24	415550	413785.6	1034.24	415550	413785.6	1034.24	415550	413785.6	1034.24
	50	rnd	422499	420554.63	1218.79	422499	420554.63	1218.79	422499	420554.63	1218.79	422499	420554.63	1218.79

Table A.1081: *MW2*: transRRGA – Suspected Optimal is 663208

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
	50	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
51	20	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
	50	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
101	20	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
	50	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0

Table A.1082: *MW2*: basicRRGA+RS – Suspected Optimal is 663208

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	442569	441047.93	884.22	442569	441047.93	884.22	442569	441047.93	884.22	441373	430878.8	5496.38
	50	rnd	459371	457609.13	937.39	459371	457609.13	937.39	459371	457609.13	937.39	459205	453902.57	4382.4
51	20	rnd	430263	428071.1	1135.25	430263	428071.1	1135.25	430263	428071.1	1135.25	430263	428071.1	1135.25
	50	rnd	438203	436285.33	927.63	438203	436285.33	927.63	438203	436285.33	927.63	438203	436285.33	927.63
101	20	rnd	414806	412982.2	913.51	414806	412982.2	913.51	414806	412982.2	913.51	414806	412982.2	913.51
	50	rnd	422404	419940.77	1115.79	422404	419940.77	1115.79	422404	419940.77	1115.79	422404	419940.77	1115.79

Table A.1083: *MW2*: transRRGA+RS – Suspected Optimal is 663208

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
	50	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
51	20	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
	50	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
101	20	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
	50	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0

Table A.1084: *MW2*: basicRRGA+IM – Suspected Optimal is 663208

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	367659	365754.5	959.48	367659	365754.5	959.48	367659	365754.5	959.48	367659	365754.5	959.48
	50	rnd	384938	382492.93	946.17	384938	382492.93	946.17	384938	382492.93	946.17	384938	382492.93	946.17
51	20	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
	50	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
101	20	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0
	50	rnd	362631	362631	0	362631	362631	0	362631	362631	0	362631	362631	0

Table A.1085: *MW2*: transRRGA+IM – Suspected Optimal is 663208

Results With No Post Optimization and Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46637	46316.97	250.01	46274	45406.8	565.78	42440	41406.8	622.15	41161	40349.3	339.31
		2op	47077	46657.3	192.86	46595	45907.73	342.87	43650	42337.47	512.82	42333	41720.57	381.52
	50	rnd	46680	46321.1	174.79	46559	45932.87	347.81	43627	42790.53	724.91	40854	40133	350.68
51	20	rnd	46964	46658.93	140.37	46885	46365.03	225.03	44554	43575.47	655.43	42193	41525.47	389.06
		2op	46790	46515.33	149.75	46758	46441.4	144.39	45985	44877.67	500.37	42670	42230.57	249.4
	50	rnd	47051	46811.2	147.69	47050	46729	165.46	46081	45309.1	431.51	43792	43229.93	299.41
		rnd	46821	46505.63	183.94	46784	46443.57	180.18	46317	45669.83	361.7	43379	42091.5	464.28
		2op	47096	46791.43	146.06	47096	46733.5	149.24	46775	46115.57	306.13	43621	42952.2	361.28

Table A.1086: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46499	46277.77	160.12	47075	46874.63	80.05	46306	45854.67	195.16	45254	44577.47	354.6
		2op	47343	47288.27	29.95	47290	47205.73	51.81	47186	46991.6	95.2	46415	45819.8	323.44
	50	rnd	46527	46312.17	113	47262	47108.93	69.25	46546	46152.73	213.53	45809	45293.93	198.09
51	20	rnd	47354	47303.97	22.57	47347	47290.7	37.18	47287	47152.2	95.67	46810	46424.17	298.98
		2op	46624	46378.27	123.42	47312	47172.4	57.75	46846	46587.5	188.99	46039	45695.3	229.93
	50	rnd	47385	47290.63	29.52	47365	47310.6	33.4	47285	47186.77	55.17	47043	46830.77	134.86
		rnd	46579	46282.23	145.51	47344	47226.27	56.86	47111	46795.97	144	46255	45854.87	162.33
		2op	47355	47302.93	23.41	47421	47348.13	37.19	47284	47210.33	43.36	47141	46982.9	102.69

Table A.1087: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46494	46277.23	155.16	46075	45539.33	283.85	42160	41085.77	591.5	40876	40176.7	359.03
		2op	46943	46683.77	155.4	46501	45988.83	323.99	43213	42068.03	516.2	42515	41575.53	435.38
	50	rnd	46723	46311.7	198.41	46450	45928.3	285.16	43710	42626.2	765.86	40699	40064.6	355.4
51	20	rnd	47064	46660.67	213.54	46861	46375.77	245.38	44578	43446.27	559.63	42369	41464.63	385.29
		2op	46995	46490.23	202.09	46995	46406.17	258.89	45752	44963.77	510.52	42897	42237.67	307.1
	50	rnd	47037	46805.67	118.8	47023	46723.43	165.33	45878	45360.27	346.77	43625	43194.93	307.14
		rnd	46887	46493.87	207.73	46850	46441.83	213.39	46238	45655.63	288.48	43246	42041.1	453.72
		2op	47078	46798	163.14	47064	46755.9	183.92	46472	46012.57	365.92	43893	42990.37	422.98

Table A.1088: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46532	46282.33	149.01	47153	46880.57	134.36	46130	45835.77	152.16	45216	44700.7	358.07
		2op	47382	47295.97	35.96	47305	47211.8	62.93	47156	46969.13	122.26	46364	45798.63	372.31
	50	rnd	46563	46299.77	145.28	47190	47070.9	68.19	46492	46033.77	190.87	45770	45121.27	372.8
51	20	2op	47379	47307.67	29.2	47392	47271.13	42.06	47218	47105.17	85.88	46846	46298.23	265.77
		rnd	46574	46297.53	134.86	47310	47170.87	74.42	47008	46619.03	140.68	46035	45638.9	206.17
	50	2op	47333	47282.43	39.43	47371	47302.93	36.41	47317	47170.27	61.96	47036	46828.1	119.73
	20	rnd	46507	46298.23	130.42	47351	47228.17	70.33	47057	46791.03	105.5	46169	45777.87	198.52
		2op	47356	47300.63	31.26	47396	47341.63	32.78	47340	47218.03	59.86	47196	46994.73	93.77

Table A.1089: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46902	46631.5	148.53	46902	46609.3	151.49	43700	41926.9	747.88	40888	40584.33	201.77
		2op	47279	47065.1	95.8	47276	47042.03	103.28	44225	42776.73	621.33	42452	41868.97	227.07
	50	rnd	46921	46684.67	128.9	46889	46675.9	129.13	44331	42772.23	1019.84	40840	40422.6	197.8
51	20	2op	47224	47009.9	107.23	47215	46995	109.8	44542	43661.1	565.05	42075	41753.2	181.98
		rnd	47139	46924.93	93.92	47139	46923.07	96.28	46455	45780.7	500	42529	42136.53	206.47
	50	2op	47349	47267.27	47.41	47349	47267.17	47.43	46990	46387.83	487.93	44300	43350.8	258.27
	20	rnd	47177	47039.63	82.98	47173	47032.17	82.79	46676	46101.23	392.24	42279	41802.37	272.41
		2op	47426	47280.07	52.78	47426	47277.33	56.81	47120	46509.53	369.08	43381	42846.73	223.75

Table A.1090: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46636	46447.77	122.03	46595	46393.87	112.73	46234	45912.53	172.63	45010	44303.53	313.75
		2op	47347	47297.53	24.36	47342	47275.07	30.84	47164	47008.93	81.55	45975	45490.27	277.42
	50	rnd	46697	46509.83	88.91	47007	46688.1	177.99	46325	46122.37	123.11	45628	45016.2	257.02
51	20	2op	47353	47316.83	23.27	47331	47292.43	26.9	47259	47107.87	90.06	46620	46202.73	250.15
		rnd	46713	46511.7	85.81	46862	46700.27	79.35	46477	46289.43	92.35	45819	45508.63	221.73
	50	2op	47364	47317.07	20.43	47353	47302.03	21.7	47284	47211.7	44.61	46856	46606.17	175.39
	20	rnd	46964	46551.53	133.6	47034	46783.9	86.65	46721	46249.83	200.34	46040	45671.43	175.01
		2op	47369	47320.13	21.14	47323	47285.6	18.58	47290	47208.87	45.17	47100	46903.37	112.02

Table A.1091: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	146586	144205.7	1246.98	142950	140313.97	1693.46	128936	118105.83	5398.38	87730	78583	3882.85
		2op	146825	145013.67	1007.38	145109	141765.23	1907.28	126561	117272.17	6240.48	83733	76331.63	3651.42
	50	rnd	145504	143816.17	938.76	144805	142599.2	1176.21	136488	130666.47	3413.43	99639	90128.47	5226.77
51	20	rnd	146887	144930.37	1127.31	145760	143739.17	1250.64	136482	131041.4	3396.69	96406	84692.37	6400.97
		2op	147308	145351.33	1243.12	146967	144900.63	1309.4	143271	139132.4	2346.87	117668	111608.8	3537.14
	50	rnd	147765	146276.17	1055.87	147688	145900.57	1159.62	142912	139138.5	2324.23	118228	106367.7	3802.44
	20	rnd	147089	145224.63	1164.37	147044	145055.17	1150.74	145178	142274.43	1823.99	130399	123719.43	4456.55
		2op	147980	146401.23	996.22	147754	146243.2	936.25	146464	143314.43	1696.35	128754	121277.23	3866.04

Table A.1092: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147160	146408.87	588.7	146756	145064.43	849.72	145582	143116.47	1383.14	139335	128892.5	5468.34
		2op	150949	150438.9	415.45	150624	149325.7	886.32	149257	147184.07	1338.63	140475	132313.4	3947.73
	50	rnd	147488	146688	514.07	147560	146606.23	642.84	146663	144212.57	1462.14	144238	138108.7	2770.41
51	20	rnd	150908	150663.8	243.78	150728	149921.77	571.92	150310	149020.97	818.11	145673	141705.43	2743.16
		2op	147668	146305.17	685.75	147594	146712.1	467.46	147284	144526.17	1151.47	146612	141810	1873.62
	50	rnd	150913	150588.33	252.44	150693	149986.9	532.91	150567	149321.33	765.42	149406	145689	1770.49
	20	rnd	147607	146807.7	367.61	147880	147332.7	355.55	146646	145658.03	701.19	145639	143808.83	1155.16
		2op	150910	150672.2	208.18	150736	150337.7	288.29	150594	149897.27	555.53	149844	147636.1	1416.23

Table A.1093: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147110	144290.87	1208.12	144083	141415.57	1778.58	126085	116535.63	5340.97	85939	77933.47	4628.29
		2op	146978	145039.67	1082.67	144770	141845.03	1943.45	125600	115470.43	5794.33	81827	74828.7	3482
	50	rnd	145763	143561.87	1103.89	145139	142501.3	1247.84	135716	128878.63	4380.55	97991	89081.6	4684.42
51	20	rnd	146370	144521.13	975.85	144849	143009.4	1261.41	137079	130053.4	3876.53	102289	85226.13	7917.23
		2op	147259	145583	1170.25	147131	145297.67	1227.17	144275	139032.73	2144.28	117900	110902.97	3358.49
	50	rnd	148725	145770.43	1156.5	147319	145383.23	1156.18	143414	138650.67	3023.14	112960	106196.4	4293.55
	20	rnd	147002	145228.73	1002.84	146901	145024.73	1078	144865	142399.27	1753.5	131517	121964.07	4507.19
		2op	148166	146568.83	874.6	148157	146388.1	946.42	145495	143459.9	1457.35	130388	119711.9	4726.97

Table A.1094: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147374	146051.6	690.84	147319	145072.33	923.64	144637	141941.67	1773.21	135262	127747.77	4243.06
		2op	150846	150355.57	507.72	150618	149223.3	1032.57	149541	146239.23	1785.23	141544	132559.67	4719.04
	50	rnd	147525	146537.6	623.77	147527	146254.23	605.13	146813	144247.77	1333.18	142951	137608.9	3059.4
51	20	rnd	147304	146273.57	629.3	147421	146405.47	543.75	146603	144389.83	1351.24	145023	141404.67	2604.82
		2op	150915	150691.47	198.81	150803	150119.2	517.14	150473	149110.33	951.91	148686	145205.73	1905.13
	50	rnd	147374	146472.27	501.58	147918	147195.67	463.72	146540	145604.93	523.65	146177	144254.3	1158.25
		2op	150949	150694	249.4	150830	150394.03	356.49	150497	149762.97	729.28	149566	147538.23	1438.23

Table A.1095: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147466	145694.23	1032.82	147317	145536.4	1086.99	141138	135605.87	3693.78	87589	78438.87	3883.06
		2op	148001	146561.37	973.03	147994	146416.07	1003.89	141570	134108.8	5097.85	82855	76910.67	2452.65
	50	rnd	146725	145019.43	1022.25	146665	144907.47	987.05	140202	132337.07	8564.16	93013	85931.93	4221.67
51	20	rnd	147723	145718.97	1043.05	147497	145615.47	1072.51	141157	130596.27	8828.11	86122	78461.73	3553.35
		2op	149003	147485.6	807.07	148985	147481.67	805.91	147915	145815.53	1276.47	123953	112167.57	5848.62
	50	rnd	149702	148564.8	624.51	149702	148560.03	628.72	148992	147074.4	1202.04	110181	101616.57	3798.12
		2op	148039	147039.3	783.64	148039	147023	787.29	147230	145661.4	923.73	127598	121014.03	3436.61
			149442	147964.7	808.81	149442	147959.43	810.48	148576	146592.07	1274.57	125146	117824.77	4675.66

Table A.1096: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147466	146718.07	496.1	147422	146334.83	716.4	146104	144096.67	1145.44	131282	125303.37	3607.07
		2op	150913	150567.03	266.9	150831	150295.73	313.74	148923	147164.5	1369.72	132417	127450.67	4221.53
	50	rnd	147661	146970.77	453.52	147633	146724.73	493.63	146714	145043.83	886.39	139774	134889.3	3551.28
51	20	rnd	150915	150754.53	151.78	150854	150458.77	370.87	150251	148597.93	968.72	143757	137617	3382.49
		2op	147390	146926.93	311.03	147374	146863.63	297.44	147032	145679.77	1016.48	143367	138924.43	2108.24
	50	rnd	150927	150710.43	200.35	150869	150600.97	207.62	150569	149865.07	467.22	145364	141991.1	1697.15
		2op	147566	147168.07	221.95	147524	146972.07	273.2	147151	146230.23	613.14	145345	142137.87	1891.21
			150949	150828.73	83.59	150918	150641.37	170.05	150582	150113.53	329.17	147720	144355.67	1871.24

Table A.1097: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	161887	160419.63	874.61	159583	157164.03	1455.33	143795	132071.07	5206.28	92312	82727.37	4590.59
		2op	162439	160467.23	1088.17	160838	157429.63	1685.89	140955	131236.63	5914.99	87789	80045.77	4263.74
	50	rnd	162414	160374.83	956.84	161393	159155.3	914.43	152844	146321.2	3387.42	116899	97752.2	7610.16
51	20	rnd	162846	160637.57	1136.4	161501	159299.6	1271.32	152964	146098.03	3619.14	102736	92048.77	6844.04
		2op	162349	160742.3	979.39	162238	160232.5	1066.34	157539	153972.17	2611.87	129939	120261.23	5853.07
	50	rnd	162814	161453.2	927.39	162664	160770.37	933.45	158140	154256.63	2565.28	127136	114516.43	6279.72
	20	rnd	163156	161224.17	852.64	163071	160990.6	874.96	160094	157995.13	1887.85	148636	136757.1	4617.8
		2op	162825	161609.4	635.95	162626	161412.97	651.29	160125	157982.77	1424.16	145945	134827.8	5235.48

Table A.1098: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	161050	159969.07	759.45	160338	158844.73	825.82	159183	156559.5	1874.68	148945	144499.13	3587.14
		2op	165991	165602.23	303.56	165638	164699.9	523.33	164394	162035.5	1547.98	153082	147600.07	3617.1
	50	rnd	161328	160027.97	585.44	161808	160440.4	663.49	160243	157628.53	1293.83	157316	152887.77	2708.1
51	20	rnd	166124	165699.87	326.64	165743	164811.33	505.47	165047	163568.07	920.9	160647	157051.03	2404.48
		2op	161461	160220.07	792.49	161515	160447.23	565.45	160163	157915.87	1203.29	158041	154951.3	1869.48
	50	rnd	165995	165645.5	285.12	165720	164957.73	489.53	165358	164188.83	696.21	163544	159841.67	2136.27
	20	rnd	160982	160010.37	576.6	161913	161175	484.73	160729	158802.67	1078.44	159797	157497.87	1621.62
		2op	166172	165896.1	159.87	165934	165525.53	296.34	165733	164948.07	649.09	164709	162445.07	1457.26

Table A.1099: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	161450	160171.5	921.5	159315	156698.6	1658.56	145308	132617.93	4966.67	92284	82498.6	4540.1
		2op	161703	160654.6	674.79	160558	157107.93	1888.45	138973	130742.17	5302.82	84416	77361.53	3689.05
	50	rnd	161423	160221.6	976.78	160703	158762.23	1137.55	150987	145933.13	2754.6	106948	93629	6331.43
51	20	rnd	163022	160347.7	1187.96	162116	159098.5	1404.58	152230	146210.33	3600.34	109550	90486.33	8208.61
		2op	162374	161160.43	873.65	162124	160657.73	896.15	158167	153635.07	2586.32	128733	119689.27	4500.26
	50	rnd	163116	161892.1	698.72	162679	161301.8	834.49	158135	154387.83	2517.66	127879	115640.7	7040.82
	20	rnd	163206	161279.83	968.69	163080	161066.83	975.21	160322	157973.63	1424.37	145838	135758.7	4912.83
		2op	163250	161582.37	995.02	162799	161288.67	970.22	161573	158068.07	1821.8	140985	133780.83	4377.87

Table A.1100: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	161156	159572.1	813.55	160811	158452.5	1149.4	158918	155580.17	1381.12	148742	142131.8	4115.43
		2op	166047	165539.73	432.91	165516	164572.3	639.33	164575	161672.2	1455.31	153102	146991.83	4302.39
	50	rnd	161054	159941.47	716.48	161207	160180.03	656.22	159663	157430.63	1348.38	155423	151338.47	2671.51
51	20	2op	166092	165872.73	181.67	165743	164951.3	634.61	165245	163598.03	947.12	160447	155454.6	3674.57
		rnd	161339	159971.13	593.82	161348	160396.2	519.38	159513	157889.07	1263.35	158709	155507.67	1839.15
	50	2op	166040	165738.53	264.78	165806	165160.93	471.6	165649	164434.8	828.27	164277	160578.47	2567.42
	20	rnd	160923	160172.93	524.21	161769	161185.7	333.16	160620	158809.3	986.28	159825	157219.47	1452.31
		2op	166151	165803.13	286.42	166076	165371.07	478.37	165758	164939.8	618.91	164203	162467.23	955.96

Table A.1101: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162367	160860.9	807.83	161797	160622.27	776.28	158549	151622.4	2708.36	90236	83676.33	3696.11
		2op	163515	161865.6	734.25	163485	161680.77	772.14	155811	150851.93	4097.77	87642	80785.8	2637.79
	50	rnd	162939	160881.2	845.83	162876	160780.03	838.34	158531	148100.7	8082.7	105568	94947.27	5852.08
51	20	2op	162422	161204.87	953.33	162377	161030.07	936.06	157677	148554.33	7039.66	99965	87296.47	5741.52
		rnd	163447	162413.7	681.24	163446	162411.93	683.36	161622	160529.9	677.81	131497	122964.5	5354.56
	50	2op	164487	163413.43	468.29	164487	163411.33	467.82	162595	161516.17	711.91	134928	115995.1	6146.74
	20	rnd	163648	162226.37	653.87	163648	162225.53	653.33	162363	160832.87	764.74	145171	136189.07	3766.6
		2op	163908	162792.2	735.6	163908	162792.2	735.6	162888	161207.4	1082.24	145713	135231.63	6101.18

Table A.1102: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	161068	160379.1	441.31	160914	159998.2	641.78	159883	158048.73	1193.72	148166	140115.53	4562.35
		2op	166070	165672.37	265.73	165913	165329.87	403.64	164384	162883.17	979.33	148847	143391.7	2737.87
	50	rnd	161240	160556.27	466.9	161166	160217.87	578.78	160280	158757	1114.58	156606	149747.97	3859.48
51	20	2op	166109	165933.8	120.11	165914	165635.83	164.24	165187	164038.57	700.07	159275	154142.87	3192.81
		rnd	161258	160493.5	498.2	161227	160405.3	540.11	160730	159757.67	607.15	157526	150966.93	2240.6
	50	2op	166097	165856.4	192.29	165994	165774.43	210.14	165619	164992.53	510.32	158513	154230.03	1746.81
	20	rnd	161394	160757.1	385.04	161340	160616.27	415.37	160711	159878.03	557.35	159290	156222.4	2055.63
		2op	166125	165983.13	85.79	166003	165805.03	115.53	165865	165078.27	503.84	163236	160428.93	2136.75

Table A.1103: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	158651	157695.47	417.23	156619	155118.13	895.07	144255	133276.33	4968.48	90674	82302.37	3689.64
		2op	158875	158028.67	579.77	157071	155149.97	1061.16	139724	130977.97	5914.81	89989	80456.8	4789.04
	50	rnd	158649	157713.93	542.6	157492	156261.2	731.62	151695	146233.37	3583.41	114141	97877.2	6719.71
51	20	rnd	158790	158067.73	357.6	157856	156490.23	783.13	152211	146875.8	3350.15	108460	92635.37	7924.88
		2op	159003	157978.63	508.07	158380	157457.73	507.56	154893	152678.3	1513.21	126140	119979.67	4721.84
	50	rnd	159338	158553.2	474.52	159046	158085.07	556.99	155631	152694.33	1940.5	132635	118322.17	6067.69
	20	rnd	159136	158008.2	498.91	158719	157661.33	534.94	157374	155091.27	1149.44	144888	136746.1	3480.8
		2op	159502	158566.8	471.89	159383	158202.6	486.19	157280	155639.97	842.95	143805	135795.07	5355.06

Table A.1104: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	153055	152448.23	494.12	154247	152273.93	732.51	152297	148991.37	1552.69	144982	139996.23	3802.02
		2op	162094	161864.83	183.09	161466	160892.47	539.31	160323	158630.73	1083.61	153127	148330.67	2673.56
	50	rnd	153342	152584.9	554.13	154075	153482.3	427.17	152362	150607	1008.83	150810	146939.53	2271.11
51	20	rnd	162198	161933.3	210.24	161789	161301.6	322.67	161213	160248.53	641.49	157527	155205.03	1836.77
		2op	153212	152443.9	531.66	154378	153457.8	566.54	152444	150769.67	1042.89	150423	148325.23	1537.65
	50	rnd	162068	161820.67	279.44	161948	161286.1	498.16	161496	160673.2	546.6	159558	157727.67	1067.54
	20	rnd	153337	152575.47	420.26	154198	153814.23	207.9	153312	152092.13	635.42	152190	150690.43	1012.25
		2op	162297	162079.5	118.56	161996	161620.87	324.56	161702	161184.07	361.63	160483	158894.53	1054.79

Table A.1105: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	158650	157525.5	556.75	157052	154595.23	908.48	142188	132266.57	6116.41	90210	79971.8	5234.65
		2op	158839	157909.1	523.51	157430	155275.6	1143.87	143683	133312.07	4543.39	86297	77874.3	3742.13
	50	rnd	158527	157742.27	510.09	157050	156218.97	601.33	151294	147082.93	2476.97	114640	96305.07	7945.53
51	20	rnd	158916	157892	527.42	157818	156429.33	761.94	152447	145074.87	3844.81	105619	95064.03	6674.86
		2op	158837	158027.8	444.97	158393	157376.9	512.22	154906	152319.63	1534.7	130575	118141.7	6473.63
	50	rnd	159259	158435.77	468.82	158643	157948.5	461.95	156071	152801.13	2297.89	133715	116728.57	6718.54
	20	rnd	158806	157996.03	541.14	158535	157675.33	542.48	157042	155067.7	946.91	145446	137689.07	4424.07
		2op	159272	158655.53	341.76	158958	158291.97	384.31	157935	156065.53	741.33	146394	134808.37	4714.6

Table A.1106: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	153144	152353.33	641.41	153828	152173.67	945.34	151097	148478.03	1584.25	146110	138900.83	3352.83
		2op	162124	161804.53	225.63	161580	160955.8	477.69	160170	158467.6	1135.37	154221	146347.7	3464.76
	50	rnd	153433	152557.97	413.99	154068	153362.73	458.35	151784	150143.9	1397.99	148632	145205.73	2534.6
51	20	rnd	162237	161901.2	227.39	161850	161130.83	446.84	161335	159806.73	1025.48	157922	154765.13	1929.2
		2op	153407	152451.67	545.49	154307	153614.57	360.72	152763	150736.33	1292.97	151370	148205.5	1591.31
	50	rnd	162157	161851.4	246.6	161967	161292.37	444.23	161827	160618.13	785.89	159708	157160.4	1545.03
	20	rnd	153327	152559.3	377.06	154308	153992	189.23	153044	151929.33	563.45	152345	150697.6	959.09
		2op	162298	162046.23	115.61	161999	161633.87	273.92	161820	161202.73	310.9	160304	158954	921.35

Table A.1107: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	158538	157858.23	456.79	158508	157698.53	496.53	153790	150666.7	3132.98	92734	84585.2	4065.02
		2op	159382	158391.93	454.67	159299	158241.63	453.15	154089	151337.77	1984.42	85356	78876.47	2628.56
	50	rnd	158322	157637.6	562.01	158250	157521	554.21	155310	149834.83	4475.55	105110	96850.2	5242.34
51	20	rnd	158988	158166.7	366.56	158948	158020.13	428.88	155090	151017.1	3681.89	101209	87323.17	6237.08
		2op	158819	158195.07	399.01	158819	158195.07	399.01	157346	156142.07	563.74	137002	126904.73	6262.43
	50	rnd	159521	158959.27	362.34	159521	158959.27	362.34	157649	156998.8	460.16	134605	121605.9	7892.64
	20	rnd	158704	158133.03	362.66	158704	158133.03	362.66	157334	156437.5	504.01	147562	141813.3	3515.63
		2op	159311	158651.73	377.8	159311	158651.73	377.8	157754	156942.8	520.57	144957	138384.9	4467.91

Table A.1108: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	153413	152592.83	436.19	153263	152368	480.75	152207	150765.83	987.42	142455	136658.13	3141.29
		2op	162166	161893.93	142.96	162166	161611.37	176.14	160277	159493.9	492.06	150776	143622.83	3506.13
	50	rnd	153360	152774.47	388.43	153268	152588.7	415.48	152362	151521.37	594.14	149208	145944.1	2360.98
51	20	rnd	162244	162060.2	113.51	162019	161763.43	183.55	161016	159943.47	844.31	156682	152756.17	3428.62
		2op	153421	152955.4	310.29	153289	152901.3	303.54	153020	152424.07	387.18	150492	145504.87	2255.32
	50	rnd	162153	161947.53	139.09	162070	161809.53	167.12	161461	161010.77	287.88	158295	153421.53	2508.73
	20	rnd	153380	152981.5	258.83	153349	152931.67	255.17	153139	152530.27	335.32	151489	149461.07	1640.7
		2op	162228	162050.3	114.42	162132	161861.07	122.35	161618	161219.03	238.27	159531	155613.67	2534.62

Table A.1109: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	174766	174390.3	312.74	173211	171774.43	913.35	153922	144206.2	6721.54	99024	89600.47	5268.7
		2op	175420	174894.93	308.96	173616	172099.77	1118.82	153138	142287.13	8680.99	95671	85548	4052.65
	50	rnd	175018	174570.5	304.31	173663	173043.83	446.99	168236	162644.8	3199.18	121401	107792.33	6860.83
51	20	rnd	175412	175094.5	251.03	174219	173600.23	437.51	167942	163068.63	3430.15	120838	99332.57	7759.19
		2op	174855	174374.33	289.58	174282	173868.67	308.86	172433	168898.33	1796.16	144684	133660.93	5905.35
	50	rnd	175841	175310.83	336.16	175390	174732.33	414.55	172819	169441.43	2302.73	138782	125926.33	6422.6
	20	rnd	175032	174527	376.62	174615	173998.67	381.86	172661	171605.07	728.2	161326	150967.9	5350.36
		2op	175852	175510.73	187.51	175458	175004.73	287.23	173796	172431.07	761.26	163211	150163.87	6599.4

Table A.1110: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166952	166141.43	782.72	167623	166210.63	990.58	165364	162028.07	1739.82	159659	153253.13	4904.33
		2op	179113	178750	228.05	178580	177728.67	631.81	177128	175519.6	1170.12	167169	163159.33	3598.83
	50	rnd	166817	166466.43	371.94	168181	167526.53	344.15	166321	163958.13	1625.19	164684	159997	2306.89
51	20	rnd	179242	178991.67	132.9	178902	178368.03	258.61	178020	177231.33	522.01	175210	171998.5	1972.66
		2op	166791	166172.57	707.53	168501	167762.5	489.31	166784	164394.87	1219.91	165912	161984.7	1857.04
	50	rnd	179118	178869.6	159.99	178821	178373.3	385.9	178491	177557.67	713.34	175963	173852.1	1578.86
	20	rnd	166755	166477.8	159.26	168702	167793.93	306.78	166944	166085.07	428.83	166106	164366.5	1459.18
		2op	179191	179031.93	102.08	179057	178661.37	277.97	178841	178143.97	405.46	177013	175653.4	905.89

Table A.1111: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	174873	174314.77	388.49	173243	171302.2	1206.79	160658	146774.8	5995.01	98974	88048.37	6189.65
		2op	175207	174825.83	334.33	173585	172216.5	866.9	153736	144719.3	6803.26	92571	83134.33	4617.05
	50	rnd	174999	174556.2	298.89	173700	173079.2	455.67	168767	162567.57	3539.85	123917	104807.53	9216.38
51	20	rnd	175380	174897	367.61	174236	173319.3	557.59	168079	162332	4393.18	118895	94814.53	7243.95
		2op	174893	174491.33	224.98	174517	173974.17	319.09	172170	169592.47	1472.49	142293	132876.5	5754.46
	50	rnd	175764	175404.37	203.24	175262	174744.57	289.8	172745	168643.8	2599.81	139844	126794.47	5782.52
	20	rnd	174829	174487.1	306.2	174584	174005.87	317.76	172809	171572.43	865.13	157955	151872.53	4384.18
		2op	175887	175496.23	255.1	175464	175051.6	282.62	173792	172402.37	1068.11	159957	149461.23	5080.36

Table A.1112: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166885	166098.17	590.53	167565	166220.43	983.31	165109	161991.17	2151.25	161228	152538.57	4164.16
		2op	178991	178770.47	198.73	178485	177901.6	536.67	177042	175515.83	1098	170418	163523.87	3977.78
	50	rnd	166790	166443.33	299.06	167904	167257	370.65	166217	164028.4	1557.97	164678	159939.7	3289.03
51	20	2op	179227	178933.27	243.41	178801	178233.47	441.74	177811	176686.33	956.96	174025	171650.93	1830.43
		rnd	166824	166090.6	690.68	168675	167470.63	581.08	166366	164506.6	1121.38	164703	161688.73	1934.3
	50	2op	179197	178847.67	209.99	178804	178335.6	359.65	178392	177521.53	843.14	176706	174024.73	1747.85
	20	rnd	166774	166377.87	410.78	168562	167866.63	318.56	166681	165912.77	517.88	165944	164145.97	1537.2
		2op	179345	179024.1	164.02	179067	178673.1	214.9	176899	178070.27	516.92	176925	175560.87	990.39

Table A.1113: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	174466	174115.67	258.01	174431	174054.4	270.34	169375	166954.27	1908.1	102822	94271.27	4771.19
		2op	175400	174981.03	166.73	175219	174859.67	181.45	170759	167768.07	2245.49	97983	87156.03	3145.09
	50	rnd	174647	174317.27	264.14	174645	174243.87	294.26	170689	167140.1	4935.36	119808	105333.1	6405.47
51	20	2op	175214	174832.97	331.82	175200	174764.33	361.23	171472	168572.63	3150.52	112305	97197.33	7233.56
		rnd	174461	174057	256.69	174461	174057	256.69	172419	171845.43	427.65	155073	143542.4	7542.24
	50	2op	175561	175213.93	182.87	175561	175213.93	182.87	173682	172889.33	522.01	151635	137203.33	9679.95
	20	rnd	174160	173847.63	319.46	174160	173847.63	319.46	172737	171991.73	426.79	164745	157989.13	3511.35
		2op	175602	174947.2	204.38	175602	174947.2	204.38	173614	173028.53	355.07	165392	154423.5	6853.6

Table A.1114: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166932	166349.23	504.66	166831	166134.83	576.57	166221	164590.03	802.62	161509	152330.53	3611.16
		2op	179104	178829.43	191.97	178976	178560.03	216.19	177082	176186.33	628.56	166414	161556.17	3008.18
	50	rnd	166811	166612.7	104.85	166753	166424.1	207.52	166208	165122.37	848.36	162745	159567.37	1675.48
51	20	2op	179236	179012.53	147.13	178965	178666.03	228.07	177835	176849.57	686.29	173835	169709.77	2080.03
		rnd	166833	166506.27	291.92	166833	166492.27	290.92	166407	165841.17	474.91	163668	158980.43	2140.43
	50	2op	179179	178898.97	159.48	179162	178810.57	184.73	178471	177869.2	762.87	173577	169318	2716.53
	20	rnd	166754	166502.87	221.15	166715	166467.93	201.18	166408	166221.17	204.79	165592	163122.1	1881.99
		2op	179302	179071.27	102.01	179196	178892.03	132.91	178621	178126.7	304.36	176073	172642.6	2418.53

Table A.1115: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	329514	325175.53	2237.16	317341	309478.93	4744.62	249011	226738.93	13889.42	161916	155233.37	4385.66
		2op	330043	326389.6	1559.98	319723	309726.73	5203.44	251328	220679.4	11200.71	165494	154250.43	4546.74
	50	rnd	330728	326317.83	2128.39	327467	318979.13	3086.36	288551	272081.6	7804.75	182792	171523.43	5952.15
51	20	rnd	331147	326127.13	1859.66	324282	318713.43	2936.49	287123	268667.5	11185.82	176096	162413.17	7227.1
		2op	329991	326955.1	1470.57	329151	324984.77	1990.85	310553	296924.6	6441.82	222563	210824.9	6999.95
	50	rnd	331753	328663.97	1468.84	329792	326432.4	1974.73	305715	292215.8	6979.37	217721	204117.2	6638.76
	20	rnd	330098	327683.6	1707.05	329569	326823	1597.32	319714	310940.77	4526.68	254977	241832.63	6268.8
		2op	332282	329811.67	1653.1	331590	328647	1765.82	319495	311065.73	5548.44	255724	236070.8	11344.36

Table A.1116: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	330961	328746.3	1148.33	328811	326017.03	1470.27	325524	320486.63	3451.84	297256	285665.23	6766.92
		2op	341565	340494.93	709.27	340158	338165.93	1128.92	336847	332127.53	2490.43	307467	293433.27	9684.55
	50	rnd	331115	329610.2	737.66	329473	326586.43	1644.02	328446	324382.17	1998.38	316820	308900.63	5026.44
51	20	rnd	341829	340798.1	790.6	340275	338750.83	1139.98	338816	336278.43	1710.72	328798	315795.9	7210.74
		2op	330369	328778.33	1111.44	329662	327013.3	1436.7	328888	325121.83	1688.65	321653	316933.67	3270.26
	50	rnd	341701	340585.73	705.99	340997	339345.9	1251.86	339933	337812.3	1635.9	334964	328720.07	2829.64
	20	rnd	331070	329882.57	957.83	331658	329623.4	1096.07	330288	327102.43	1967.9	329385	322991.93	3195.18
		2op	341861	341341.8	374.05	341421	340164.1	674.24	340579	339089.27	914.19	336463	333387.47	2535.24

Table A.1117: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	329842	324361.6	2127.47	316420	308856.1	4381.31	251040	229497.8	10873.7	163007	153080.6	5287.77
		2op	327764	325432.97	1484.65	318268	309660.97	4986.78	247262	226618.9	14908.86	159247	151083.33	5050.2
	50	rnd	329239	325079.5	1626.9	322700	317753.53	2085.46	279758	267363.57	9816.1	182068	167100.57	7511.01
51	20	rnd	329671	326424.93	1583.36	323532	318850.63	2896.03	285870	269190.7	10592.71	172332	157980.2	7685
		2op	330346	327130.77	1504.34	327794	325475.13	1648.29	306554	292823.4	7916.61	222209	207964.67	6944.52
	50	rnd	332027	328543.8	1450.82	330044	326081.07	2110.38	302575	290708.8	7656.11	212652	202218.97	6864.29
	20	rnd	330193	327411.73	1423.9	329894	326329.9	1825.95	316357	309783.77	3987.56	263865	242626	10821.11
		2op	332169	329711.43	1584.5	331285	328362.17	1697.19	322728	310517.73	5297.33	253689	233054.43	10100.78

Table A.1118: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	331505	328787.17	1154.26	329269	325438.1	1703.96	326608	319963.1	2902.18	299676	287567.1	6843.05
		2op	341500	340109.2	1124.45	340267	337975.5	1388.43	336560	331765.4	3201.4	304874	292013.03	9721.54
	50	rnd	331922	329501.57	1039.22	329769	326710.43	1634.91	327726	324362.1	1551.56	311540	305527.8	4294.34
51	20	rnd	341550	340564.7	574.24	340396	338299.6	1305.34	338737	334824.33	2192.52	321214	313102.93	5220.93
		2op	331324	329022.9	992.17	330458	327638.13	1597.6	328066	325148	2186.4	324946	316309.53	5038.67
	50	rnd	341658	340334.5	905.89	340828	338985.2	1011.52	339639	337019.5	1360.67	332773	327041	3488.24
	20	rnd	331604	330048.83	893.78	331143	329598.8	920.16	329987	327117.77	1310.22	328507	323310.3	2293.5
		2op	342008	341170.07	525.22	341212	340102.73	738.43	340928	338896.23	966.65	335988	332746.1	2161.4

Table A.1119: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	329572	326361.47	1757.88	329533	326360.17	1755.43	296312	284249.07	6605.69	174048	161595.4	5471.24
		2op	332738	328492.23	1901.06	332738	328451.03	1929.8	295502	283434.03	9746.33	169424	159068.77	3610.11
	50	rnd	329483	326382.83	1407.27	329483	326379.93	1413.32	308770	266984.9	27182.31	182955	172954.07	6036.49
51	20	rnd	331844	328172.47	1408.01	331844	328169.5	1411.3	308130	272750.07	25231.41	172697	161057.17	4710.6
		2op	330790	328474.73	1728.18	330790	328474.73	1728.18	326411	321787.9	2885.8	238655	225862.63	8907.7
	50	rnd	334553	331650.3	1301.37	334553	331650.3	1301.37	329212	324122.53	2771.47	230976	209538.03	11228.89
	20	rnd	331406	328024.8	1886.31	331406	328024.8	1886.31	328595	324379.07	2602.72	265369	245645.47	12691.55
		2op	332495	330842.83	1327.47	332495	330842.83	1327.47	329424	327084.37	1747.3	262777	242835.73	12368.12

Table A.1120: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	331533	329160.3	1098.06	330771	328595.9	1141.31	326519	322728.93	2097.24	294536	277541.47	6752.03
		2op	341548	340579.73	623.91	341398	339972.6	947.09	336497	332239.33	2585.6	299957	283239.47	8644.19
	50	rnd	331486	330087.53	870.67	331081	329373.6	1030.67	328950	325720.77	1952.26	312629	302889.17	5608.31
51	20	rnd	341817	341152.1	439.24	341537	340476.2	669.59	339009	335056.67	2564.79	318165	309438.6	6655.59
		2op	331237	330076.8	774.86	331224	329898.43	963.98	331032	328350.8	1352.3	312360	294238.97	8095.41
	50	rnd	341527	340802.3	465.7	341423	340665	452.01	340258	338742.87	954.5	320253	301116.97	9241.44
	20	rnd	331500	330393.17	597.41	331455	330208.23	626.62	330490	328989.5	852.08	324235	311440.03	9649.64
		2op	341909	341266.87	325.5	341677	340970.77	391.27	340573	339588.6	673.34	333339	316862.07	10525.61

Table A.1121: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	180129	174775.17	2603.54	171884	165190	3856.53	136972	127859.17	4398.63	84501	71974.33	7562.37
		2op	213940	210620.9	1669.27	205467	199006.2	3733.51	171280	155504.13	5539.59	152258	146647.57	3413.58
	50	rnd	179468	175262.6	2581.52	174310	170020.53	2743.34	154974	143224.7	5265.89	98631	88538.6	5591.35
51	20	2op	214357	210500.7	2464.32	210906	205513.2	3099.77	181816	170326.5	6866.36	150468	144849.2	3475.55
		rnd	180438	175321.63	2597.49	178905	173561.57	2789.45	165473	157832.47	4122.42	125408	109581.8	7072.22
	50	2op	220072	215535.43	1826.36	217974	213986.3	1954.19	200887	192419.7	4205.97	171471	164735.37	3047.45
	20	rnd	177818	173642.93	2811.84	177378	172516.47	2877.65	170135	164561.7	3732.77	137843	127637.73	4899.05
		2op	220295	214932.3	2474.83	219844	214236.9	2600.91	211030	203711.8	3392.1	170133	163410.23	3230.03

Table A.1122: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	28971	26132.4	1554.73	66954	60462.17	2998.52	53089	46252.9	3109.91	38777	33472.9	3648.64
		2op	225113	224305.13	390.68	224636	223620.43	697.52	223277	220401.93	1866.21	211320	205149.73	3517.24
	50	rnd	29677	26567.7	1502.43	70076	65577.67	2739.55	57195	51932.23	3306.48	48453	36348.83	5649.41
51	20	2op	225191	224526.4	450.38	225090	224042.23	591.76	224112	222747.13	785.04	218287	214264.93	2550.01
		rnd	30092	27263.43	1733.27	46469	42147.4	1870.54	61552	54076.27	2970.06	48575	39385.8	4952.66
	50	2op	225257	224401.67	690.47	225235	224487.67	617.21	224578	223286.87	1075.43	221638	218823.53	1978.18
	20	rnd	31036	26975.2	1453.86	45074	42221.03	2088.59	64892	58274.53	2659.4	53518	40197.97	4783.27
		2op	225004	224468.37	293.68	225263	224969.73	272.84	224824	223986.03	443.85	223378	220876.07	1688.11

Table A.1123: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	180316	174963.3	2587.93	172276	164734.17	3438.75	136714	127073.8	5319.35	80927	70251.87	6430.95
		2op	214851	209571.17	2429.88	205927	198228.43	3771.7	164813	155807.07	4558.05	157737	146030.7	3774.34
	50	rnd	180231	174371.6	2750.34	174954	169418.9	3392.56	150379	142154.17	4746.93	100311	91207.03	5851.97
51	20	2op	214253	209074.17	2396.39	209705	203881.13	3534.88	174459	165768.6	4169.5	150990	144500.63	3248.23
		rnd	180145	174133.97	2558.52	179295	172102.07	3196.22	165460	157038.43	4124.6	122449	108337.77	7580.64
	50	2op	219578	215286.17	2162.4	218236	213547.73	2259.3	199690	190824.87	6105.1	170783	164348.8	3318.28
	20	rnd	180251	174992.1	2977.12	178846	173971	2880.75	170247	164998.03	2885.43	141668	128001.1	6736.26
		2op	218745	214834.63	1910.79	218021	214157.97	1872.45	207392	203340.4	3391.43	170852	162699.87	3825.01

Table A.1124: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	28971	26533.23	1396.65	63635	59771.6	2216.74	54775	45199.17	3645.35	37650	32181.47	3059.34
		2op	225222	224363	560.99	224603	223849.67	758.36	223718	221067.4	1772.73	213901	202604.83	4315.69
	50	rnd	29201	26743.03	1080.22	68564	64715.47	2055.69	57580	51146.93	3570.71	41867	35942.37	4182.58
51	20	rnd	225040	224459.8	415.97	224798	224054.93	585.69	224491	222563.83	982.77	217938	212795.9	3319.69
		2op	31150	26894.07	1228.62	45748	42775.57	1650.6	58737	54660.3	2168.6	48660	39350.9	5150.42
	50	rnd	225060	224459.07	281.6	225228	224420.8	421.72	224349	223469.9	708.87	222602	219117.03	2280.91
	20	rnd	29699	26825.5	1449.18	46415	42488.1	1754.67	62991	57421.8	2203.67	52765	42707.27	6510.16
		2op	225257	224462.83	475.3	225260	224906.07	311.22	224592	223937.33	518.32	223016	221339.4	1202.38

Table A.1125: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	181409	173935.77	2837.45	181014	173273.57	3124.07	142836	131938.6	6209.81	74111	64218.9	5312.53
		2op	223511	219452.07	1819.04	223252	218862.4	1909.15	181275	163062.17	7392.74	154458	148838.27	1978.29
	50	rnd	181196	174937.83	2697.78	181196	174460.33	2871.01	150587	138711.77	8263.53	90909	84449.47	4161.65
51	20	rnd	221480	217377.7	2135.4	221099	217185.73	2112.34	182198	169471.9	7170.61	153052	148072.43	1841.87
		2op	182436	175882.13	2841.27	182407	175877.57	2840.96	168326	162658.83	3369.06	109960	95142.6	9270.67
	50	rnd	225230	223954.17	837.15	225230	223939.3	840.34	216277	206738.73	5939.31	171754	165259.93	2707.27
	20	rnd	183586	178516.67	2367.61	183586	178488.5	2373.16	175794	166435.07	4926.09	124436	110094.73	12099.91
		2op	225260	223640.83	996.21	225260	223629.57	1009.08	218370	211540.27	4501.06	165847	161390.03	2818.59

Table A.1126: *bx842596_4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	30735	27824.2	1081.44	44859	41653.47	1615.24	43838	41917.83	1676.53	27205	24072.33	1344.62
		2op	225239	224651.2	272.02	225235	224432.73	406.84	223446	221204	1151.98	205748	198779.9	4093.54
	50	rnd	31393	28482.73	1090.33	50306	44998.5	2124.96	53378	49331.63	2157.16	31369	28256.13	2093.11
51	20	rnd	225257	224653	288.4	225257	224584.57	300.85	223997	222548.7	1052.6	215843	210068.87	3062.09
		2op	30227	28550.6	944.31	33584	29850.93	1588.47	55359	50664.57	1717.9	36645	32303.03	2530.47
	50	rnd	225223	224771.6	203.37	225112	224728.97	239.28	224675	224032.6	439.87	218370	214415.27	1554.51
	20	rnd	30998	28714.53	882.45	35803	32118.7	1684.55	59543	55412.07	2313.15	37826	33294.47	3169.64
		2op	225257	224828.97	204.82	225226	224712.17	220.47	224610	224028.37	365.81	222264	218556.5	2134.4

Table A.1127: *bx842596_4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342618	334220.23	3853.83	318532	305746.3	7463.74	247191	223169.63	9908.39	138070	118563.6	9362.43
		2op	430886	426413.83	2846.44	400299	389449.67	7495.52	337837	331187.47	3915.99	337696	330088.1	4025.58
	50	rnd	342958	336362.5	4230.1	331934	321376.7	5162.68	272182	257057.3	7837.88	177226	156656.8	12676.84
51	20	rnd	430836	425918.87	3144.51	418912	408713.8	5598.76	347155	336532.77	4572.59	340114	329756.47	4054.02
		2op	342206	334492.57	3666.96	340384	330824.8	4104.16	301015	284775.9	7663.73	208395	189460.23	13347.82
	50	rnd	433494	430119.2	2231.47	429177	423816.2	3457.69	385404	369204.33	9486.41	357588	350991.9	4019.99
	20	rnd	343012	335226.87	4358.04	340084	331703.53	4316	316397	305368.17	5472.08	238127	224132.23	8122.78
		2op	433092	429276.13	2308.31	431272	427199.7	2638.36	402879	389140.5	6571.87	352198	344195.77	3740.71

Table A.1128: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47333	43616.63	1934.1	101536	94417.03	4281.47	85200	69096.53	7750.08	66141	49591.93	10212.65
		2op	437809	437444.43	316.88	437537	436989.3	428.88	435942	434340.77	1175.8	422599	412299.53	5524.22
	50	rnd	47418	43853.93	1928.75	112473	102864.17	3816.95	88697	76196.3	7185.04	73132	60833.77	9739.81
51	20	rnd	437939	437482.67	254.88	437713	437143.77	337.79	436672	435729.87	667.97	430020	425284.37	2901.86
		2op	48331	44610.93	1643.57	69852	65179.8	2233.75	96152	84895.87	6010.41	78951	61923.73	8650.39
	50	rnd	437794	437466.97	248.59	437696	437167.87	378.98	437403	436602.33	509.37	434209	431181.4	1980.46
	20	rnd	46919	44367.67	1382.53	68358	64518.17	2312.7	100111	89906.33	5664.07	83208	63896.87	10189.37
		2op	437908	437572.97	212.1	437852	437456.83	240.11	437548	437018.07	380.8	436397	433442.7	1470.04

Table A.1129: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342807	334538.33	3733.63	321737	307129	7410.58	253111	226338.83	9701.13	137913	120855.03	8407.45
		2op	430826	425304.03	2690.94	401111	390122.33	6547.49	343183	330942.13	4642.15	341201	329793.43	4429.91
	50	rnd	344473	335355.43	4530.88	328879	319775.4	5657.38	269724	252368.97	7956.76	168018	155007.43	8906.43
51	20	rnd	430421	425802.83	2382.25	416130	406538.23	5642.62	349160	334578.4	6378.48	336665	327743.93	4307.64
		2op	339600	334079.37	2811.84	334589	328700.23	3419.42	304411	287196.97	8336.97	206311	190464.6	10422.94
	50	rnd	433495	430406.27	1720.99	429406	424646.37	3127.33	381133	372001.33	6627.38	356141	350315.37	4259.99
	20	rnd	341336	335210.1	3611.49	338498	331584.43	3458.52	319432	307184.5	5992.37	240668	226002.9	10517.91
		2op	433526	429622.43	2337.34	432474	426979.73	2773.13	409119	394314.5	7736.94	354706	346574.17	3913.88

Table A.1130: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47324	43731.63	1584.12	100305	92848.73	4101.96	86768	73219.53	8568.47	65470	47325.27	10600.07
		2op	437852	437533.9	192.74	437570	436940.63	409.71	435533	433571.2	1878.15	421028	411585.5	4173.81
	50	rnd	48655	43784.87	2127.35	109598	101849.33	3789.4	88872	77842.87	7653.76	75887	57285.9	11228.31
51	20	2op	437826	437572.37	165.58	437471	437134.3	327.61	436641	435565.03	677.06	429593	423925.9	3153.99
		rnd	46726	44476.6	1374.2	68018	64299.1	2262.94	95725	84611.97	4832.84	74938	62823.77	8210.51
	50	2op	437897	437400.57	373.92	437856	437288.97	310.53	437668	436586.03	562.28	434746	431186.6	2260.71
	20	rnd	46993	43999.77	1702.19	66846	63964.13	1514.37	99029	87650.8	5486.21	89618	65365.03	10720.31
		2op	437864	437553.23	164.75	438143	437351.2	242.51	437428	436864.9	357.82	435555	433416.7	1304.12

Table A.1131: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	338100	329591.4	3779.76	338100	329428.07	3902.54	253494	233698.1	11189.06	123254	106012.57	8080.31
		2op	436690	433854.73	1558.86	436126	432338	1707.1	347993	338055.17	3440.72	338080	332645.5	2367.68
	50	rnd	338708	331901.97	2854.31	338708	331706.27	2987.01	264846	244929.3	15120.16	157937	146326.53	7840.94
51	20	2op	436235	433870.13	1207.55	435969	433171	1437.62	358872	343678.23	7511.4	336665	331545	2028.22
		rnd	336468	328685.1	3746.65	336468	328685.1	3746.65	308779	295192.1	8398.23	190333	156014.67	21879.12
	50	2op	437605	436740.67	658.12	437594	436709.8	693.7	413072	391880.33	12498.23	358846	349970.4	3180.53
	20	rnd	336991	330584.97	3975.73	336991	330584.97	3975.73	318121	306592.1	7244.03	222252	176717.03	23981.78
		2op	438180	436675.17	733.56	438180	436631.9	738.26	423174	410074.93	7642.36	348409	345616.77	1511.85

Table A.1132: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	51328	46253.73	1537.21	66139	61726.23	3198.68	67486	63462.17	2819.37	38681	36360.6	1189.47
		2op	437901	437575.8	235.39	437758	437445.17	244.83	435201	433796.03	970.1	415432	407056.93	3906.46
	50	rnd	47995	46586.63	1193.47	73138	66998.77	3212.01	79298	75071.77	2017.53	45080	40510.6	2094.31
51	20	2op	437859	437669.97	109.38	437789	437536.33	148.63	436750	435319.2	780.41	427857	422082	2787.85
		rnd	50672	47000	1438.49	50672	47089.43	1411.58	85557	77988.57	2724.46	49584	45114.73	2527.76
	50	2op	438022	437632.03	178.68	437829	437597.43	175.66	437245	436822.5	303.37	429626	422516.13	4411.34
	20	rnd	49073	47004.73	1138.98	51997	48284.6	1593.36	91600	84536.23	3163.82	52237	46596.73	3529.72
		2op	437947	437685.97	113.49	437937	437607.57	133.89	437521	436960.5	285.78	434158	428559.5	4768.94

Table A.1133: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	92248	89672.77	1396.27	88900	86082.23	1722.94	73840	69529.13	2288.52	49825	40911.23	3331.28
		2op	114835	112814.13	828.89	111498	108853.43	1463.91	96250	91568	1861.33	92664	89039.63	1719.02
	50	rnd	92087	89378.7	1435.97	89962	87298.6	1669.67	82059	77085.7	2076.88	55594	51268.27	2762.89
51	20	rnd	113900	112016.2	974.57	113349	110579.17	1214.38	100817	96803.87	2981.64	92814	88601.4	1943.04
		2op	93314	89922.33	1671.32	92707	89240.03	1794.9	86940	82502.6	2538.72	66865	60768.57	3539.13
	50	rnd	114926	113852.2	634.21	114854	113492.93	763.6	109880	106695.57	1881.83	99327	96718.4	1257.26
	20	rnd	92370	89138.5	1473.31	91970	88459.33	1432.92	87956	85062.9	1424.77	74478	69736.83	2964.81
		2op	114827	113710.83	647.04	114805	113563.93	701.31	113103	110440.53	1512.53	98561	95053.13	1658.08

Table A.1134: $j02459_7$: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22540	20583.7	975.74	42815	39903.63	1592.02	36698	32091.27	2869.77	28465	23914.17	2168.47
		2op	115182	114937.83	117.74	115049	114808.03	159.63	114817	114202.23	399.59	111910	109794.87	1073.15
	50	rnd	22182	20700.73	887.12	46668	43680.9	1669.14	38481	34848.03	2370.33	30737	25382.47	3101.36
51	20	rnd	115221	114955.53	137.56	115167	115061.5	78.13	115072	114580.4	237.61	113630	112563.77	603.01
		2op	22707	20811.43	1004.8	35562	32004.93	1616.15	42675	37298.87	2239.69	32584	27530.33	3088.88
	50	rnd	115157	114976.5	108.19	115317	115177.67	77.96	115032	114834.93	103.81	114339	113791.17	425.71
	20	rnd	22290	20767.6	891.24	34697	31209.77	1211.33	43576	39513.87	2172.68	35788	28245.6	3837.11
		2op	115175	114953.63	117.79	115360	115253.17	64.3	115096	114846.53	154.39	114562	114252.9	257.64

Table A.1135: $j02459_7$: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	93014	90086.73	1576.94	90182	86285.9	1981.96	74564	69447.43	3601.51	48599	42090.13	3405.37
		2op	114754	112465.63	1112.01	111864	109369.47	1203.27	95559	91031.83	2481.56	92474	88921.3	1998.73
	50	rnd	91877	89930.2	1254.94	90272	87598.13	1492.27	80831	76760.8	2172.67	56740	51064.83	2780.82
51	20	rnd	114184	112188.63	833.55	112174	110682.97	1074	100745	96114.7	2678.24	92188	88403.1	1764.32
		2op	91632	89469.7	1388.88	91207	88776.77	1552.05	87519	82062.37	2614.91	67963	61441.83	3358.85
	50	rnd	114688	113815.1	681.21	114361	113525.93	726.48	109408	106425.47	1393.52	98505	96016.7	1337.73
	20	rnd	91801	89313.93	1208.32	91682	88723.83	1345.7	88911	85518.03	1537.44	73413	69078.1	3047.24
		2op	114884	113488.1	741.86	114560	113304.3	717.5	112633	110273.6	1418.61	98163	94923.53	1623.52

Table A.1136: $j02459_7$: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22241	20455.77	816.86	43399	40398.37	1837.71	37691	32719.1	2674.4	28396	24362.33	1948.44
		2op	115121	114904.07	164.22	115079	114808.1	203.99	114822	114035.5	607.71	111133	109160	1177.88
	50	rnd	22546	20589.2	906.21	46526	43160.13	1907.02	37597	33612.47	2338.49	30548	26769.7	2375.77
		2op	115120	114917.6	132.04	115203	115044.97	130.51	114860	114505.37	265.26	113825	111756.87	1094.64
51	20	rnd	22265	20593.53	801.47	35256	32484.9	1501.23	40838	37183.7	2177.95	33623	26051.77	3953.67
		2op	115257	114957.8	129.63	115330	115181.07	59.25	115091	114799.93	155.54	114356	113754.63	384.19
	50	rnd	21880	20704.77	772.62	34851	31443.07	1478.1	43729	39530.7	1834.03	36516	27728.97	4546.46
		2op	115140	114914.57	95.4	115373	115261.3	60.47	115070	114791.53	140.57	114774	114233.6	267.4

Table A.1137: *j02459_7*: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	92108	89454.63	1411.95	91657	89005.67	1438.07	75638	70665.77	3930.71	42971	39081.7	1958.81
		2op	115206	114676.83	385.25	115206	114603.27	395.88	101371	95362.73	3091.72	91490	90017.4	820.35
	50	rnd	93688	89979.43	1665.72	92924	89759.67	1604.03	80584	75012.2	3223.81	52111	47661.1	2426.9
		2op	115111	114349	444.6	115111	114301.73	472.49	104335	99665.67	3233.01	91280	89346.6	843.57
51	20	rnd	93133	90222.63	1439.71	93062	90194.2	1436.83	87374	84663.27	1700.71	58911	52801.77	4398.8
		2op	115245	115094.33	101.7	115245	115087.07	112.38	114221	111253.5	2261.93	97720	96445.87	798.98
	50	rnd	94820	91693.3	1680.44	94820	91603.63	1720.7	90760	87140.2	2037.25	69776	63294.9	6018.65
		2op	115305	115169.93	90.72	115305	115164.53	91.56	114272	112701.7	1191.65	98691	95482.27	1275.48

Table A.1138: *j02459_7*: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	23514	21774.57	618.82	33568	31142.57	1025.77	31192	28412.9	1240.24	19040	17785.53	713.1
		2op	115175	115002.4	129.61	115159	114974.57	129.77	114695	114099.4	281.4	109695	107123.53	1420.39
	50	rnd	23492	21932.63	614.98	35945	33203.43	1488.52	34979	32487.1	1254.86	22190	19493.57	1116.73
		2op	115180	115020.27	115.84	115164	114992.97	117.65	114866	114533.53	182.84	112892	111562.23	917.83
51	20	rnd	23798	22179.93	738.31	25253	23411.23	920.38	36405	34334.17	1127.6	23669	22057.3	1280.4
		2op	115267	115095.3	92.51	115202	115090.03	85	115071	114884.5	90.83	114257	112919.1	652.53
	50	rnd	23548	22111.27	755.42	26473	24476.5	822.99	39592	37455.1	1095.38	25397	22777.23	1570.68
		2op	115265	115104	81.42	115204	115055.5	68.12	115052	114807.9	149.01	114239	113836.9	238.27

Table A.1139: *j02459_7*: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	33263	32098.63	835.49	33344	31249.4	975.02	30889	27612.93	1506.73	21170	19009.73	1371.27
		2op	38405	37485.9	643.88	38368	37127.4	687.63	35505	33767.77	914.87	31060	29851.13	675.39
	50	rnd	34213	33229.67	601.61	34772	33104.27	692.4	31407	29722.17	1067.37	25166	22479.07	1538.81
51	20	rnd	38355	37688.07	427.03	38270	37181.73	621.91	37785	35427.53	1069.68	32099	29929.77	779.85
		2op	33208	32134.93	672.42	36012	34728.7	592.01	31675	30154.67	871.18	28040	25716.73	1263.4
	50	rnd	38429	38085.43	245.57	38434	38209.37	164.28	38354	37631.3	395.17	36109	34853.97	426.86
	20	rnd	34559	33461.4	511.76	36577	35473.8	408.48	34373	31512.2	1045.92	30229	28190.3	1280.25
		2op	38430	38167.3	248.4	38411	38182.47	174.76	38347	37767.43	404.29	36573	35025.27	869.65

Table A.1140: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12636	11124.7	646.67	24273	21591.97	927.31	19754	17905.1	850.76	16496	14197.43	995.65
		2op	38414	38353.37	73.83	38420	38401.03	21.7	38366	38185.17	120.7	37729	36720.23	606.65
	50	rnd	12711	11144.13	726.38	25837	23412.73	940.53	21751	19391.33	928.4	16469	15079.7	876.9
51	20	rnd	38409	38378.8	50.69	38439	38419.73	13.04	38397	38326.77	49.05	38129	37593.27	375.76
		2op	12621	11220.67	590.3	21311	18965.63	1150.87	22281	20741.07	776.06	18724	16439.2	1230.43
	50	rnd	38414	38367.8	64.48	38439	38421.33	12.96	38409	38385.27	15.47	38304	38038.23	257.54
	20	rnd	12541	11329.07	636.04	21821	18552.57	1167.82	22878	21551.37	884.63	18419	16427.3	1097.14
		2op	38409	38371.83	54.27	38439	38429.1	12.63	38434	38399.9	11.11	38364	38134.3	274.46

Table A.1141: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	33010	31949.3	560.09	34127	31312.07	1033.97	29237	27433.33	944.77	22898	19524.3	1726.83
		2op	38202	37445.47	436.03	38202	37186.37	489.73	35912	33915.07	1048.07	30403	29544.93	650.99
	50	rnd	34581	33025.7	634.75	33823	32515.4	558.21	31902	29872.7	977.96	24702	22349.23	1381.97
51	20	rnd	37990	37439.53	422.32	37811	37086.8	557.35	36390	35153.17	905.92	30738	29304.3	883.29
		2op	33823	32069.83	766.54	35688	34880.2	555.29	32085	30416.63	982.5	28222	25814.77	1122.16
	50	rnd	38412	38151.8	253.37	38395	38215.53	172.54	38349	37543.47	611.83	35867	34841.93	463.61
	20	rnd	34825	33463.23	713.93	36110	35330.63	530.55	32303	31074.27	719.49	29435	27774.6	812.04
		2op	38434	38066.5	297.14	38419	38117.83	219.88	38286	37612	495.66	36196	35054.1	785.53

Table A.1142: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12206	10880.87	591.19	23222	21866.7	872.58	19457	17901.37	818.4	15931	14256.53	797.7
		2op	38409	38357.77	70.61	38434	38400.63	14.7	38366	38141.67	111.08	37787	36623.87	636.15
	50	rnd	12311	11131.17	645.04	25690	23416.93	1107.52	21314	19619.7	791.27	17009	15253.9	1118.94
51	20	rnd	38409	38361.13	70.19	38439	38419.43	12.52	38385	38272.63	95.11	38078	37529.77	366
		2op	12505	11171.17	775.28	21069	19033.97	1238.17	22847	20802.93	938.14	18509	16631.47	966.8
	50	rnd	38409	38363.97	65.07	38439	38418.13	11.62	38412	38384.2	14.45	38309	37968.67	243.03
	20	rnd	12551	11273.77	717.49	22848	18654.67	1338.66	23387	21886.33	936.28	18806	16561.77	1136.7
		2op	38414	38366.33	64.76	38439	38427.23	11.65	38431	38398	16	38384	38182.97	128.48
	50	rnd												

Table A.1143: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	34012	32407.17	787.93	34238	32049.37	913.31	30284	28519.83	1020.75	19774	16962.3	1190.07
		2op	38427	38323.13	99.64	38427	38311.43	107.36	37014	35467.33	1006.03	31222	29961.4	506.66
	50	rnd	34713	33455.77	663.36	35280	32980.63	980.97	31844	29749.9	980.52	22992	20961.83	1103.68
51	20	rnd	38434	38289.53	174.65	38434	38273.7	183.72	37341	35921.63	1130.99	30814	29688	549.21
		2op	34689	33254.73	767.72	36405	34895	644.39	33691	31903	720.92	25974	24169.07	924.6
	50	rnd	38434	38411.57	13.17	38439	38429.6	8.68	38409	38246.47	146.31	35443	33977.5	565.94
	20	rnd	35238	33893.87	506.58	35700	34721.43	567.36	33488	31800.27	746.13	28535	26656.63	1107.22
		2op	38439	38421.43	13.1	38439	38425.17	10.84	38409	38166.43	207.24	35241	33483.9	833.74
	50	rnd												

Table A.1144: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13342	11873.27	513.53	18721	17515.93	608.19	17478	16225.7	696.16	12506	11872.1	426.02
		2op	38409	38401.5	9.24	38409	38399.97	9.39	38353	38158.97	163.39	37174	35787.63	940.49
	50	rnd	13043	11936.77	558.73	19060	17998.53	428.75	19553	18276.43	571.78	14151	13082.43	668.09
51	20	rnd	38409	38403.8	7.36	38409	38402.3	9.29	38396	38249.93	130.4	37893	37090.57	476.98
		2op	13591	12217.23	519.29	15044	14133.97	428.34	19988	18907.93	661.14	16828	14182.3	743.96
	50	rnd	38434	38406.9	9.44	38434	38407.9	7.65	38406	38353.13	35.98	38093	37778.37	240
	20	rnd	13016	12139.37	473.68	15140	14288.8	460.59	21158	19706.87	802.32	16094	14240.7	885.87
		2op	38429	38407.9	4.53	38409	38401.47	5.5	38407	38356.23	53.16	38292	38025.43	208.02
	50	rnd												

Table A.1145: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38967	37407.7	749.63	38357	36415.6	926.87	33954	31864.33	1216.86	25108	21066.77	1780.94
		2op	47088	46166.17	615.28	46614	45525.97	559.49	42816	39784.87	1279.24	38638	36172.3	898.95
	50	rnd	39475	37895.63	778.85	38308	36554.57	816.51	35567	33735.23	1063.28	27447	24664.2	1438.75
51	20	rnd	47341	46113.6	790.87	47091	45743.47	869.84	45153	42269.87	1471.4	37394	35915.33	925.8
		2op	39660	37399.23	833.54	40842	39088.63	824.82	37078	35540.03	983.86	30479	28413.07	1411.12
	50	rnd	47394	46909.3	442.15	47394	46862.5	447.98	47007	45512.87	850.22	42306	40953.63	645.25
	20	rnd	40098	38231.1	728.32	42137	40804.97	652.61	37284	35973.2	814.52	33901	31517.5	1145.75
		2op	47387	46817.13	362.84	47394	46907	325.84	47085	46144.4	480.37	42478	40679.17	885.96

Table A.1146: *m15421_6*: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12134	11298.33	557.04	24460	22396.6	1086.11	20770	18031.2	1317.19	15182	13322.87	739.58
		2op	47386	47228	56.2	47392	47365.33	37.92	47140	46936.27	175.35	46433	44824.77	730.89
	50	rnd	12841	11472	652.49	25677	23964.57	967.78	22044	19652.67	1420.55	16763	14241.13	1273.69
51	20	rnd	47387	47224.53	66.9	47403	47395.07	7.07	47278	47141.7	64.32	46993	46130.27	501.04
		2op	13429	11760.77	569.59	21865	19648.8	1116.6	22941	20769.53	1064.85	18622	15566.17	1368.96
	50	rnd	47402	47252.47	68.16	47403	47400.37	4.96	47376	47269.67	70.75	47118	46662.63	284.84
	20	rnd	13138	11694.63	571.01	21352	18708.63	1283.25	24062	21985.9	1065.05	19911	16087.57	1480.48
		2op	47323	47215.9	43.55	47403	47402.07	2.9	47395	47342.43	57	47128	46961.93	138.32

Table A.1147: *m15421_6*: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38666	37117.37	763.12	37433	36112.7	801.11	33759	31880.8	1129.14	24077	20926.4	1832.81
		2op	47085	45750.2	757.42	46849	45167.4	710.94	40634	39240.8	1043.66	37770	35807.63	768.51
	50	rnd	39147	37904.67	591.86	38065	36795.43	608.94	36817	33978.03	1082.74	28281	24353.27	1482.58
51	20	rnd	46887	45756.93	537.27	46500	45443.63	588.87	44143	41904.03	1329.45	37349	35476.97	842.91
		2op	38441	36819.47	816.72	40904	38799.73	837.21	37788	35063.1	972.29	30968	28541.93	1500.81
	50	rnd	47378	46896.37	307.27	47378	46815.33	325.95	46818	45584.63	634.89	42590	40961.87	640.14
	20	rnd	39904	38237	842.23	41651	40420.77	630.91	38109	35774.57	1059.7	33529	31131.23	1388.13
		2op	47387	46812.3	412.62	47378	46832.57	350.31	47295	46303.17	489.54	43075	40901.17	990.02

Table A.1148: *m15421_6*: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12153	11187.67	602.21	24537	21985.47	1078.21	20210	18027.1	1111.8	16157	13046.13	1070.51
		2op	47402	47225.43	57.23	47402	47357.13	43.88	47161	46945.93	193.36	46510	44933.77	780.59
	50	rnd	12698	11390.6	462.43	25282	23591.57	1019.37	21906	18765.93	1117.86	17114	14469.5	1258.5
		2op	47401	47222.17	79.69	47402	47394.53	7.28	47315	47068.07	145.12	46703	46013.83	613.15
51	20	rnd	13272	11687.03	598.92	22325	19607.6	1090.41	22767	21011.43	946.24	18226	15943.37	1193.8
		2op	47386	47226.9	56.74	47403	47401.3	2.91	47399	47257.93	83.95	47106	46829.83	311.99
	50	rnd	12535	11579.13	522.99	20945	18807.57	1205.84	25343	22094.57	1280.12	18734	16282.3	1440.72
		2op	47402	47234.6	69.03	47403	47402.23	2.92	47388	47355.47	41	47206	47015.8	170.61

Table A.1149: *m15421_6*: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38798	37590.43	682.13	38651	37316.93	705.14	34426	32220.03	1161.36	21266	19015.13	1382.04
		2op	47387	47267.07	166.87	47387	47234.83	186.05	44541	41173.87	1732.51	37579	36602	403.67
	50	rnd	39265	38055.5	587.58	39025	37410.43	714.8	35747	33323.03	1162.66	25350	22803.73	1005.98
		2op	47403	47144.3	256.59	47387	47123.1	303.8	45375	42996.77	1562.82	37441	36319.1	522.59
51	20	rnd	39755	38558.43	628.81	41446	40280.47	600.69	38335	37115.53	795.9	28412	26079.03	1014.25
		2op	47403	47368.27	47.78	47403	47395.5	7.82	47333	46809.27	472.97	42132	40666.57	663.15
	50	rnd	40120	38895.33	648.12	41491	39709.93	1041.69	37855	36927.9	539.47	31556	29656.53	930.05
		2op	47403	47383.57	32.18	47403	47379.2	42.36	47316	46967.37	361.15	41267	39442.83	671.25

Table A.1150: *m15421_6*: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13662	12207.07	480.26	18479	17579.73	451.12	17225	16394.93	562.21	12711	11244.67	537.41
		2op	47402	47264.97	65.28	47386	47256.3	62.41	47212	46943.1	165.27	45383	44244.9	655.7
	50	rnd	13325	12277.6	395.71	20933	18629.37	757.21	21605	18534.53	938.69	13100	12197.07	549.65
		2op	47402	47311.27	67.68	47398	47314.1	62.74	47206	47051.9	109.54	46351	45525.67	489.57
51	20	rnd	12941	12397.33	383.96	15386	14106.93	445.03	20144	18995.63	565.63	15264	13760.03	818.17
		2op	47402	47320.97	63.67	47402	47361.33	37.29	47360	47210.43	68.35	46941	46473.7	458.45
	50	rnd	13175	12440.17	411.38	15251	14337.47	397.22	22986	20362.5	888.52	15369	13901.47	775.51
		2op	47387	47312.07	60.59	47387	47346.7	40.26	47304	47182.47	41.65	47122	46798.63	195.23

Table A.1151: *m15421_6*: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	45588	43527.07	963.05	44234	42329.87	1085.33	39697	37689.9	1154.5	28489	24580.5	1967.05
		2op	54567	53600.13	460.31	53850	52893	508.52	49725	46232.77	1465.36	45255	43764.6	855.57
	50	rnd	45807	44273.43	818.92	44796	42984.07	983.88	42379	39984.23	1473.44	31751	29050.77	1583.75
51	20	rnd	54626	53694.1	381.71	54382	53325.1	626.19	52293	49521.5	1247.8	46287	43425.57	875.77
		2op	45588	43520.93	973.87	46548	45379.53	804.48	44755	41512.7	1358.1	36992	33800.87	1527.29
	50	rnd	54636	54234.67	309.46	54609	54190.97	323.96	54212	53130.17	682.56	49556	48608.9	546.33
	20	rnd	46632	44801.53	954.05	49174	47256	893.15	44969	42686.4	1111.4	41013	37087.13	1861.08
		2op	54679	54191.07	318.33	54638	54258.77	232.85	54434	53460.7	529.65	50268	48197.07	1253.62

Table A.1152: *m15421.7*: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15329	13732.43	837.49	28824	26326.33	1265.38	23792	21469.27	987.18	18183	15919.03	1389.66
		2op	54750	54706.2	36.11	54742	54702.73	31.36	54653	54354.53	235.67	53950	52351.63	954.82
	50	rnd	14853	13614.27	619.62	30505	28252.43	1236.75	25024	23072.4	941.64	19685	16592.43	1499.71
51	20	rnd	54742	54706.03	28.43	54751	54740.77	6.02	54702	54571.07	84.71	54116	53494.87	423.3
		2op	15982	13991.63	879.01	25718	23458.7	1202.06	26597	24393.7	1284.22	21307	18672.93	1342.49
	50	rnd	54742	54704.4	38.15	54760	54744.93	6.68	54742	54655.73	58.67	54520	54166.43	318.1
	20	rnd	14860	13878.33	636.66	26305	23002.2	1561.7	28399	26050.1	1188.98	23412	19392.2	1768.1
		2op	54742	54723.83	23.02	54751	54747.67	4.93	54742	54687.83	55.14	54678	54459.3	128.63

Table A.1153: *m15421.7*: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46181	43661.53	1044.84	44805	42464.83	960.53	40146	37496.57	1318.14	28538	24832.37	2161.33
		2op	54300	53473.9	562.96	54030	53020.17	611.3	48761	46212.03	1614.96	44947	43274.63	767.95
	50	rnd	46530	44328.57	842.69	44557	42818.3	756.17	41428	39335.9	1107.59	32071	28210.8	2226.5
51	20	rnd	54560	53671.2	505.72	54315	53334.2	547.36	51585	49341.5	1259.82	44696	43380.57	790.2
		2op	46248	43539.57	1198.24	47448	45715.8	1011.99	43896	41434.27	1219.47	36932	33526.5	1662.51
	50	rnd	54644	54165.4	368.98	54605	54104.1	410.15	54082	52956.13	649.17	49793	48384.83	579.46
	20	rnd	46494	44755	848.27	50170	47505.07	933.34	44208	42487.5	1199.75	39897	37016.7	1351.02
		2op	54724	54263.93	305.8	54639	54261.23	251.2	54504	53603.7	590.19	50231	47985.27	867.58

Table A.1154: *m15421.7*: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15279	13826.37	736.52	29123	26211.73	1146.56	24128	20812.57	1243.98	18781	15696.47	1095.31
		2op	54742	54701.27	35.64	54741	54695.83	28.56	54580	54378.97	200.8	53785	52186.03	907.53
	50	rnd	16165	13911.5	795.09	30203	28280.6	1253.9	25025	22565	1348.12	19721	16701.3	1248.45
51	20	rnd	54742	54708.43	22.7	54751	54737.8	9.45	54701	54501.63	149.55	54228	53384.93	570.89
		2op	15576	14088.8	766.38	27003	23572.53	1407.93	25981	24311.5	875.72	20917	18520.27	1566.44
	50	rnd	54742	54676.5	115.44	54751	54740.97	11.23	54741	54651.9	65.93	54558	54146.2	319.21
	20	rnd	15497	13785.3	777.69	26007	22475.63	1601.52	27742	25624.57	1237.13	22818	18851	2014.03
		2op	54742	54713.2	21	54756	54747.23	4.81	54742	54694.77	36.5	54638	54394.3	186.13

Table A.1155: *m15421.7*: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	45548	44001	896.14	45529	43580.27	1176.03	39710	37502.97	1388.52	24733	22730.63	1388.1
		2op	54742	54562.23	136.52	54742	54553.9	147.38	52185	49011.23	1877.81	45428	44165.5	514.79
	50	rnd	46075	44864.73	562.87	45996	44159.9	786.91	41600	39437.4	1315.28	29839	27269.87	1597.57
51	20	rnd	54717	54542.1	144.21	54717	54529.63	151.45	52732	50471.47	1249.51	44934	43892.97	403.04
		2op	46238	44543.27	726.13	47764	46602.97	681.45	44151	42744.6	847.85	33542	30822.93	1228.81
	50	rnd	54751	54730	27.58	54751	54736.6	14.67	54601	54059.57	444.52	49284	48229	452.57
	20	rnd	47374	45451.43	686.4	47986	46311.1	1136.35	45083	43322.77	893.2	37928	34911.67	1285.8
		2op	54751	54738.57	12.98	54751	54734.67	21.1	54698	54334.67	336.53	49185	47075.9	733.84

Table A.1156: *m15421.7*: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15648	14731.73	451.9	22157	20892.17	609.04	21437	19345.13	989.77	15416	13155.7	635.06
		2op	54742	54728	17.81	54742	54721.7	22.06	54605	54336.7	172.19	53011	51613.23	752.01
	50	rnd	15599	14720.9	514.95	23695	22199.53	743.13	22850	21125.67	661.11	16845	14385	778.4
51	20	rnd	54751	54735.23	14.5	54751	54731.5	16.39	54686	54493.93	145.91	53759	53107.43	405.19
		2op	16164	15008.87	543.23	18375	17000.23	538.29	25382	22396	895.6	18252	16245.9	918.63
	50	rnd	54751	54739.03	10.57	54751	54738.93	10.57	54715	54640.77	64.73	54403	53899.53	289.64
	20	rnd	16014	14974.7	457.99	18091	17353.43	449.74	26113	23589.3	810.03	17648	15848.9	1028.44
		2op	54751	54740.53	7.38	54742	54727.5	15.45	54740	54644.87	50.91	54585	54203	221.85

Table A.1157: *m15421.7*: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10672	10272.17	270.39	11328	10974.37	164.53	10931	10301.77	237.94	9975	9202.2	377.96
		2op	11109	10931.9	135.35	11373	11201.5	95.14	11135	10866.27	147.13	10421	9994.63	243.35
	50	rnd	10904	10323.03	289.95	11308	11048.7	144.27	11093	10734.5	182.51	10391	9627.83	385.52
51	20	rnd	11256	10935.57	162.99	11373	11194.2	103.69	11256	11059.8	148.74	10526	10078.23	198.16
		2op	10863	10197.2	328.96	11122	10804.03	210.14	11198	10913.3	184.7	10679	10159.73	255.55
	50	rnd	11109	10987.83	73.04	11305	11121.53	47.65	11373	11194.13	84.73	11109	11017.67	63.99
	20	rnd	11103	10521.1	257.88	11303	11001.8	186.61	11311	11054.63	150.2	10887	10241.07	299.65
		2op	11109	11049.23	109.95	11373	11184.33	84.08	11394	11258.17	63.92	11109	10994.5	100.39

Table A.1158: $x60189_4$: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6901	6020.77	449.81	10677	10155.27	431.11	10574	9500.6	501.89	9406	8373.17	547.69
		2op	11101	11017.6	31.22	11205	11115.4	24.36	11109	11107.47	8.4	11172	10976.6	76.84
	50	rnd	7124	6031.77	423.28	10738	9590.57	727.02	11195	10163.43	597.71	9923	8721.77	464.09
51	20	rnd	11107	11023.67	32.19	11256	11123.1	36.01	11256	11120.3	35.34	11109	11032.07	43.95
		2op	7144	6145.27	408.85	9274	8254.53	431.82	11105	10058.47	663.54	10324	9111.1	538.14
	50	rnd	11107	11017	24.19	11256	11110.83	32.15	11256	11120.2	37.7	11109	11108.47	2.03
	20	rnd	7383	6163.23	431.4	9725	8254.67	444.03	10949	9792.7	814.73	10319	9206.83	477.17
		2op	11101	11015.27	21.9	11109	11109	0	11256	11122.1	45.94	11109	11109	0

Table A.1159: $x60189_4$: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10952	10295.87	335.25	11241	10946.23	182.16	10775	10346.17	222.32	9732	9167.07	243.69
		2op	11127	10888.63	172.29	11305	11216.03	77.42	11101	10808.83	185.54	10705	9855.73	320.99
	50	rnd	10977	10361.47	327.82	11478	11057.93	170.77	11197	10718.77	225.05	9892	9336.9	262.22
51	20	rnd	11213	10878.3	220.09	11305	11198.23	83.24	11256	10982.83	194.46	10465	10027.1	245.81
		2op	10837	10311.43	319.96	11136	10797.37	181.09	11259	10949.9	167.37	10925	10360.8	339.37
	50	rnd	11109	11031.43	41.25	11305	11115.87	41.49	11373	11156.63	82.44	11109	11053.07	50.46
	20	rnd	11047	10547.17	276.97	11283	11017.33	152	11369	11084.67	150.89	11022	10362.87	295.11
		2op	11109	11013.9	97.26	11373	11174.27	93.66	11373	11255.83	68.83	11109	10950.2	100.71

Table A.1160: $x60189_4$: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7096	5942.03	504.42	10653	10133.3	290.7	11072	9612.53	530.11	9506	8607.57	505.99
		2op	11063	11011	11.29	11256	11118.5	32.1	11109	11107.5	7.85	11059	10959	59.01
	50	rnd	6937	6054.03	414.3	10875	9780.87	778.2	10714	9993.87	435.37	9815	8889.07	543.88
		2op	11107	11012.73	26.8	11305	11148.4	64.13	11256	11118.8	37.3	11107	11038.83	51.23
51	20	rnd	6903	6160.93	326.78	9753	8283.5	540.06	10808	10083.07	555.55	10391	9277.3	698.3
		2op	11095	11017.2	22.46	11109	11109	0	11305	11126.83	48.75	11109	11108.87	0.51
	50	rnd	6893	6107.97	380.41	8885	8054.4	445.1	11205	9932.53	828.22	10333	9223.03	540.03
		2op	11095	11011.07	16.67	11109	11105.93	16.8	11256	11125.1	45.03	11109	11109	0

Table A.1161: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10864	10440.53	255.71	11348	11034.97	123.68	10100	9596.33	252.32	9007	8425.6	288.81
		2op	11109	11065.83	55.15	11373	11257.7	78.69	11088	10767.63	235.95	9704	9508.73	107.2
	50	rnd	11092	10496.53	220.49	11341	11040.2	175.86	10032	9710.37	188.98	8715	8374.7	208.39
		2op	11256	11082.53	54.35	11305	11205.7	82.2	11109	10783.17	231.53	9748	9407.83	167.51
51	20	rnd	10968	10546.23	216.78	11326	10866.13	208.77	11002	10537.53	237.02	10369	9834.77	314.6
		2op	11109	11078.33	44.11	11305	11146.2	72.24	11109	11052.17	39.47	11029	10769.57	92.28
	50	rnd	11157	10643.2	223.05	11233	10886.73	187.1	11094	10474.67	194.05	10134	9401.77	247.14
		2op	11213	11094.07	43.51	11305	11136.07	64.54	11180	11031.03	45.08	11017	10598.9	252.63

Table A.1162: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7001	6436.83	321.39	9743	8813.57	290.7	9891	9101.7	410.11	8433	7920	258.95
		2op	11107	11039.93	39.47	11109	11089.67	30.32	11087	10983.57	48.74	10909	10309.73	210.22
	50	rnd	7286	6518.33	330.57	9396	8889.23	226.18	10175	9460	357.55	9824	8317.57	379.92
		2op	11107	11044.4	39.15	11109	11107.07	8.36	11124	11046.37	41.41	11095	10759.6	165.74
51	20	rnd	7286	6576.23	328.69	7983	7584.97	186.77	10197	9582.5	365.5	9695	8601.87	418.55
		2op	11107	11056.47	43.47	11109	11096.73	25.51	11109	11076.47	33.73	11015	10904.47	97.86
	50	rnd	7453	6730.43	285.31	7947	7683.8	147.99	10371	9665.43	387.11	9094	8362.4	382.41
		2op	11107	11051	43.74	11109	11080.03	40.95	11109	11098.6	24.24	11043	10956.67	57.8

Table A.1163: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13611	12826.27	308.27	14055	13636.5	189.12	13293	12746	312.77	12423	11342.63	449.55
		2op	13967	13718.6	173.7	14064	13900.5	82.13	13868	13469.33	173.42	12957	12583.63	209.44
	50	rnd	13573	13045.53	294.64	13858	13670.97	99.82	13644	13205.27	232.24	12651	11677.87	448.06
51	20	rnd	13916	13735.47	142.72	14058	13933.9	51.87	13831	13665.83	112.28	13526	12833.13	259.28
		2op	13880	12822.77	363.41	13917	13466.7	224.2	13858	13435	187.32	13648	12649	351.47
	50	rnd	13873	13766.6	53.28	13967	13877.6	46.57	13967	13880.3	44.15	13818	13681.87	69.78
	20	rnd	13377	12979.87	193.55	13832	13572.27	164.28	13918	13645.63	181.69	13105	12573.4	337.68
		2op	13899	13794.83	68.07	14064	13924.33	68.8	14064	13927.1	71.42	13774	13582.3	126.65

Table A.1164: $x60189_5$: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	8306	7528.3	483.01	13120	12001.27	547.82	12857	11246.33	616.43	11534	10026.4	632.59
		2op	13764	13732.6	13.91	13967	13897.1	39.41	13874	13851.87	39.48	13752	13596.4	69.98
	50	rnd	8241	7350.1	394.03	13411	11944.03	693.07	13351	11786.63	513.56	11384	10242.03	543.27
51	20	rnd	13815	13737.17	19.13	13968	13891.87	34.67	13878	13870.8	10.8	13837	13675.37	54.5
		2op	8385	7619.9	457.63	12005	10125.33	521.55	13016	11917.73	600.61	11606	10737.2	539.74
	50	rnd	13751	13735.2	13.03	13968	13878.37	38.58	13967	13876.47	18	13869	13767.6	59.74
	20	rnd	8649	7718.5	458.54	10774	9922.87	471.68	13128	12035.17	772.15	11530	10764.23	368.08
		2op	13747	13727.8	10.97	13878	13862.9	33.93	14064	13901.73	54.56	13874	13792.17	64.69

Table A.1165: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13260	12847.87	223.87	13923	13622.43	157.3	13347	12762.47	347.94	12093	11145.97	527.92
		2op	13873	13726.73	141.06	14038	13886.1	87.56	13751	13384.63	196.87	13080	12578.53	223.77
	50	rnd	13397	12873.4	286.71	14060	13661.03	187.13	13674	13023.87	249.39	12541	11482.27	484.03
51	20	rnd	13916	13752.63	146.54	14038	13922.9	73.84	13846	13617.83	137.07	13215	12665.17	300.43
		2op	13654	12832.8	306.68	13988	13457.93	231.95	13964	13441.57	235.91	13622	12689.2	402.8
	50	rnd	13873	13757.73	58.94	13967	13893.87	45.1	13967	13881.63	56.91	13894	13654.9	97.14
	20	rnd	13688	13074.53	273.17	13956	13607.33	167.3	14001	13652.33	173.65	13330	12725.03	269.43
		2op	13878	13790.3	61.43	14064	13906.67	60.29	14064	13906.23	59.04	13843	13589.07	98.14

Table A.1166: $x60189_5$: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	8397	7580.33	542.99	13464	12150.7	567.58	12822	11252.9	619.84	11597	10094.17	557.88
		2op	13764	13731.97	13.61	13968	13883.6	28.62	13874	13838	49.95	13749	13578.37	76.7
	50	rnd	8502	7488.03	470.12	13664	12170.63	623.42	12756	11602.9	587.06	11090	10289.87	488.23
		2op	13751	13730.37	11.66	13967	13885.17	28.53	13878	13867.8	18.12	13816	13658.27	65.87
51	20	rnd	8401	7592.93	407.75	11713	10195.87	490.35	13140	11899.5	726.53	12040	10669.53	584.52
		2op	13815	13734.03	20.17	13967	13884.63	37.36	13878	13871.73	5.26	13861	13745.3	40.31
	50	rnd	8090	7498.23	381.27	10628	9671.9	425.96	13349	12041.73	707	11711	10686.03	454.41
		2op	13747	13731.23	11.95	13968	13854.83	59.21	13967	13879.8	24.27	13869	13763.23	51.58

Table A.1167: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13475	12913.97	293.02	13995	13650.83	180.99	12684	12153.53	270.77	11054	10375.87	348.58
		2op	13878	13811.9	57.64	14064	13954.73	58.85	13867	13500.77	188.09	12652	12189.8	139.05
	50	rnd	13471	13078.4	181.58	13954	13679.97	152.72	12996	12375.67	263.87	11137	10582.1	312.17
		2op	13967	13842.6	48.89	14064	13909.3	56.24	13840	13547.13	170.32	12749	12081.03	242.77
51	20	rnd	13768	13165.23	243.96	13768	13418.27	171.28	13603	13078.83	242.82	12839	12118.07	356.37
		2op	13873	13817	56.13	13968	13897.33	37.66	13851	13742.53	52.76	13621	13322.57	97.69
	50	rnd	13814	13228.27	238.53	13978	13498.33	175.93	13700	13076.93	251.18	12531	11862.73	327.37
		2op	13967	13858.3	32.5	13967	13887.1	35.91	13848	13709.93	65.02	13611	13215.6	183.45

Table A.1168: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	8535	8023.37	285.47	11335	10486.47	307.46	11886	10661.67	417.37	10133	9290.47	328.46
		2op	13869	13750.67	32.1	13862	13793.23	36.47	13755	13654.63	70.54	13581	13083.37	231.18
	50	rnd	8726	8105.3	292.67	11593	10620.9	310	12134	11089.83	425.13	10612	9829.27	340.19
		2op	13817	13746.5	15.5	13874	13833.23	37.88	13796	13725.3	44.33	13634	13412.13	141.98
51	20	rnd	8918	8210.93	294.06	9813	9412.97	222.38	11796	11240.77	316.82	11418	10064.6	559.6
		2op	13817	13748.77	20.56	13872	13781.2	43.42	13852	13752.4	42.99	13688	13568.47	96.02
	50	rnd	8784	8343.17	246.53	9736	9312.23	216.78	12270	11539.07	335.44	11154	10074.6	506.46
		2op	13864	13754.3	24.42	13874	13775.13	36.74	13868	13787.17	46.4	13721	13635.2	67.88

Table A.1169: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16965	16028.7	404.86	17423	16892.63	266.59	15825	14757.1	361.75	13412	12500.03	574.96
		2op	18017	17863.37	187.81	18017	17934.7	99.47	17737	17093.33	341.99	16259	15717.6	375.74
	50	rnd	17097	16277.33	372.87	17654	17324.8	223.58	16547	15613.57	456.46	14130	13026.77	602.56
		2op	18017	17915.8	157.96	18017	17986.9	48.97	17993	17399.67	331.83	16748	15787.73	347.1
51	20	rnd	16620	15895.33	411.27	17680	17028.3	291.67	17141	16354.13	314.31	15840	14748.9	493.76
		2op	18017	17986.3	43.66	18017	18017	0	18017	17973.1	56.46	17866	17630.6	123.14
	50	rnd	17090	16382.73	389.92	17538	17037.47	200.56	17337	16825.33	267.53	15654	14782.3	445.73
		2op	18017	17999.6	30.66	18017	18017	0	18017	18003.03	23.53	17901	17508.47	236.12

Table A.1170: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10299	9499.87	391.72	15770	14333.5	608.28	14217	13261.63	528.49	12527	11580.9	494.48
		2op	18017	18007.03	11.59	18017	18017	0	18017	18003.33	10.44	17939	17721.43	124.22
	50	rnd	10463	9429.83	546.91	15576	14531.93	547.88	14472	13679.93	399.53	12756	11964.8	472.1
		2op	18017	18006.27	11.67	18017	18017	0	18017	18016.97	0.18	17984	17879.43	76.31
51	20	rnd	10309	9538.7	429.86	14330	12998.63	606.88	15251	13935.93	540.34	13486	12526.57	552.38
		2op	18017	18007.03	11.59	18017	18017	0	18017	18017	0	18017	17976.07	27.76
	50	rnd	10364	9747.9	344.13	13694	12612.83	540.21	15145	14378.1	505.45	13903	12651.77	598.01
		2op	18017	18004.73	11.67	18017	18017	0	18017	18017	0	18016	17979.57	20.65

Table A.1171: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16837	16131.63	316.26	17385	16788.5	320.94	15444	14734.7	370.66	13984	12651.93	631.1
		2op	18017	17811.7	164.42	18017	17861.37	146.87	17711	16949.6	492.38	16355	15495.17	363.71
	50	rnd	16931	16151.1	378.7	17682	17179.2	274.37	16504	15499.37	533.95	13945	12929.57	441.13
		2op	18017	17879.97	196.82	18017	17996	33.56	17943	17420.4	338.2	16261	15606.43	385.72
51	20	rnd	17000	16061.1	377.98	17536	16868.17	265.7	16981	16316.4	317.07	15634	14557.67	536.6
		2op	18017	17968.87	111.2	18017	18017	0	18017	17979.27	40.65	17850	17585.77	117.58
	50	rnd	17519	16342.93	401.85	17603	17056.27	233.79	17595	16913.3	349.49	15981	14704.3	560.17
		2op	18017	17967.9	76.27	18017	18015.8	4.57	18017	18007.37	14.24	17994	17426.87	327.53

Table A.1172: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10189	9319.9	358.36	15458	14362.03	679.96	13992	12985.27	604.02	12695	11713	556.6
		2op	18017	18005.5	11.7	18017	18017	0	18017	18000.9	10.2	17911	17681.43	121.07
	50	rnd	10019	9407.3	365.76	16037	14610.97	561.47	14809	13520.03	542.37	13200	12124.8	501.79
		2op	18017	18003.97	11.59	18017	18017	0	18017	18016.3	2.29	17973	17856.73	88.69
51	20	rnd	10264	9514.97	424.21	14817	13292.93	769.38	15072	14089.97	570.72	13238	12294.57	527.48
		2op	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18012	17964.63	28.42
	50	rnd	10644	9747.1	413.59	13859	12626.33	558.11	15867	14429.8	661.43	13779	12710.1	554.4
		2op	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18014	17985.03	21.49

Table A.1173: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16640	16139.7	247.11	17657	16968.47	293.69	15468	14746.5	423.72	12386	11406	545.18
		2op	18017	18016.4	3.29	18017	18017	0	17961	17462.23	387.35	15907	15428.07	183.01
	50	rnd	16933	16342.73	338.17	17581	16959.33	331.4	15737	14895.87	377.01	13277	11866.23	489.19
		2op	18017	18011.83	22.61	18017	18008.3	27.14	17978	17497.33	382.65	16171	15172.3	278.52
51	20	rnd	16984	16335.57	252.03	17187	16749.2	259.94	16571	15745.23	331.1	15170	14072.97	512.88
		2op	18017	18017	0	18017	18017	0	18017	17994.4	33.52	17677	17103.97	203.63
	50	rnd	17104	16549.43	313.91	17483	16977.37	214.13	16591	15934.93	335.73	15408	14070.33	495.05
		2op	18017	18017	0	18017	18017	0	18017	17937.53	116.93	17534	16982.03	334.67

Table A.1174: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	10782	9985.37	405.91	13264	12601.27	277.07	13746	12303.67	556.38	11260	10371.63	349.7
		2op	18017	18017	0	18017	18017	0	18008	17934.47	55.78	17667	17215.07	245.59
	50	rnd	10756	10207.6	300.12	14508	13018.63	377.81	13764	13026.67	370.96	11956	10827.93	429.96
		2op	18017	18016.23	4.2	18017	18017	0	18017	17982.57	24.12	17896	17606.1	179.49
51	20	rnd	10807	10093.8	282.53	12350	11600.5	320.75	13974	13196.03	433.77	12353	11452.6	503.85
		2op	18017	18017	0	18017	18017	0	18017	18002.03	16.34	17971	17853.97	84.29
	50	rnd	10890	10245.33	271.75	12130	11549.73	285.96	14734	13711.87	528.65	12161	11309.2	466.91
		2op	18017	18017	0	18017	18017	0	18017	18009.53	11.3	17994	17899.33	64.68

Table A.1175: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19788	18962.63	493.28	20367	19746.33	321.99	18536	17484.83	558.67	16034	14951.13	598.88
		2op	20829	20630.37	191.46	20987	20733.5	110.98	20456	19762.1	457.02	18712	18072.87	415.83
	50	rnd	19876	19258.63	330.25	20740	20265.57	278.31	19454	18459.03	494.59	17099	15838.63	753.06
51	20	2op	20945	20640.13	173.46	21051	20917.4	82.33	20671	20212.6	275.19	19228	18305.3	447.1
		rnd	19724	18924.17	378.34	20492	19931.53	315.99	20011	19337.77	334.39	18698	17500.97	530.87
	50	2op	20829	20772.3	72.18	21057	20877.1	68.43	20829	20753.77	71.32	20558	20213	131.4
	20	rnd	19709	19196.63	339.97	20829	20087.13	364.91	20579	19780.07	320.63	18290	17374.1	471.22
		2op	20843	20773.4	79.03	21057	20906.87	73.3	20931	20787.97	49.35	20728	20129.9	336.11

Table A.1176: $x60189_7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12785	11705.33	468.52	17707	16810.3	480.84	16547	15571.9	433.98	14703	13682.43	594.33
		2op	20829	20829	0	20997	20834.6	30.67	20829	20805.9	21.07	20618	20372.4	157.35
	50	rnd	12889	11761.6	551.47	18836	17039.13	693.56	17417	15979.73	649.37	15833	14354.9	619.96
51	20	2op	20829	20829	0	20829	20829	0	20829	20828.47	1.31	20807	20635.6	86.84
		rnd	12756	11799.23	502.46	17679	15779	907.61	17653	16300	670.42	16408	14888.13	790.26
	50	2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20755.6	49.29
	20	rnd	12661	11844.63	522.46	16900	15057.77	697.78	18016	16705.17	671.05	16776	14715.77	629.41
		2op	20829	20829	0	20829	20827.27	9.49	20829	20827.73	6.94	20829	20784.2	34.15

Table A.1177: $x60189_7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19682	18949.8	345.68	20728	19742.37	336.73	18680	17578.13	552.58	15962	14678.8	649.28
		2op	20997	20686.23	169.27	20921	20716.27	104.1	20503	19890.93	428.74	18611	18074.2	332.92
	50	rnd	20068	19139.8	451.68	20567	20103.6	257.77	19487	18328.33	525.25	16255	15409.23	482.6
51	20	2op	20880	20690.17	139.93	21051	20890.8	93.93	20682	20124.87	330.4	19434	18365.1	496.25
		rnd	19588	18860.97	307.73	20385	19735.93	263.68	19616	19235.77	269.64	18522	17271.13	640.67
	50	2op	20889	20787.2	83.96	21057	20882.73	67.16	20889	20739.13	103.43	20467	20208.37	170.19
	20	rnd	19943	19217.5	342.15	20542	20081.57	245.59	20313	19714.23	338.77	18249	17332.13	497.35
		2op	20922	20761.4	89.55	21059	20926.2	81.66	20997	20790.93	97.15	20473	20137.37	246.64

Table A.1178: $x60189_7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	12825	11577.2	564.28	18127	16823.6	572.83	16724	15424.37	502.58	14840	13600.13	792.47
		2op	20829	20827.23	9.49	20829	20829	0	20829	20806.13	20.68	20610	20352.7	168.28
	50	rnd	12772	11569.7	501.25	18145	17216.53	587.51	16893	15869.03	508.8	15345	13980.37	636.15
51	20	rnd	20829	20829	0	20829	20829	0	20829	20827.43	2.76	20737	20600.03	81.27
		2op	12665	11937.53	458.55	17827	15989.13	1072.48	17238	16046.8	595.46	15562	14572.07	541.72
	50	rnd	20829	20821.47	41.26	20829	20829	0	20829	20829	0	20818	20761.6	31.57
	20	rnd	12723	11818.4	571.48	16857	15109.97	808.07	17908	16858.37	585.09	16004	14702	613.22
		2op	20829	20829	0	20829	20827.73	6.94	20829	20827.73	6.94	20829	20786.7	31.97

Table A.1179: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19806	19113.13	355.25	20506	19936.07	294.36	18514	17610.5	510.68	14593	13627.5	587.02
		2op	20829	20806.5	33.68	21057	20863.37	66.47	20753	20220.03	346.28	18487	17721.63	212.32
	50	rnd	19934	19410.77	342.08	20813	20003.2	311.69	18626	17922.3	356.22	15465	14226.87	517.97
51	20	rnd	20911	20813.73	43.85	21011	20857.27	71.54	20711	20230.63	318.98	18084	17513.47	256.13
		2op	20106	19252.13	411.43	20389	19749.53	350.38	19409	18648.37	334.64	17532	16564.77	454.05
	50	rnd	20889	20831	10.95	20997	20875.47	59.08	20889	20808.47	50.94	20100	19645.17	173.27
	20	rnd	20071	19486.97	275.87	20402	19986.03	232.86	19489	18719.37	417.22	17655	16758.43	454.86
		2op	20997	20844.3	42.09	21057	20899.3	64.8	20889	20727.5	136.68	20225	19580.63	403.67

Table A.1180: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	13318	12112.6	401.65	15440	14864.03	275.46	15376	14551.77	412.22	13259	12216.83	439.05
		2op	20829	20829	0	20829	20828.93	0.37	20829	20741.73	96.49	20296	19771.17	339.78
	50	rnd	13035	12302.43	412.54	16198	15350.33	308.81	16637	15403.5	515.34	14505	12912.03	509.01
51	20	rnd	20829	20829	0	20829	20829	0	20829	20794.67	41.2	20647	20283.2	244.8
		2op	13778	12364.47	505.34	14424	13757.03	261.09	17072	15632.2	618.08	14570	13443.53	523.74
	50	rnd	20829	20829	0	20829	20829	0	20829	20820.5	14.53	20822	20611.9	122.67
	20	rnd	13727	12481.3	468.14	14360	13883.87	249.53	16828	15885.07	428.62	14337	13542.4	509.72
		2op	20829	20829	0	20829	20829	0	20829	20823.73	7.7	20810	20706.63	54.46

Table A.1181: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	586.1	5.43	594	592.13	1.7	595	591.07	2.24	586	577.07	4.64
		2op	596	590.87	3.4	596	593.47	1.5	595	592	2.46	589	580.4	4.37
	50	rnd	594	586.83	4.42	596	593.6	1.5	596	593.77	1.17	590	580.53	3.99
51	20	rnd	595	590.97	3.08	596	593.67	1.47	596	593.77	1.48	592	582.53	3.92
		2op	593	585.63	4.37	595	592.3	1.66	596	593.4	1.67	595	591.03	2.61
	50	rnd	595	592.67	3.04	596	594.23	1.3	596	595.03	0.61	596	594.47	1.11
	20	rnd	594	588.37	4.57	595	593.43	1.19	596	593.9	1.35	595	591.2	2.73
		2op	595	592.4	3	596	594.6	1.16	596	595.13	0.78	596	593.33	2.04
	50	rnd	595	592.4	3	596	594.6	1.16	596	595.13	0.78	596	593.33	2.04

Table A.1182: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	485	441.93	36.03	593	576.43	22.73	596	587.47	5.42	594	580.17	7.33
		2op	592	589.6	1.22	595	594.63	0.96	595	593.77	1.28	594	591.83	3.09
	50	rnd	488	443.17	29.61	593	552.33	31.58	596	587.03	10.68	594	584.7	5.63
51	20	rnd	592	589.97	1.3	595	594.9	0.31	595	594.87	0.35	595	593.4	2.04
		2op	513	463	28.06	586	549.6	31.08	594	582.77	17.19	594	585.87	4.01
	50	rnd	592	589.83	1.51	595	594.27	0.94	595	594.5	1.31	595	594.07	0.64
	20	rnd	530	473.4	28.17	588	537.2	31.67	593	567	29.06	593	583.2	10.3
		2op	592	589.9	1.16	595	594.4	0.5	595	594.9	0.31	595	594.03	0.61
	50	rnd	592	589.9	1.16	595	594.4	0.5	595	594.9	0.31	595	594.03	0.61

Table A.1183: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	594	583.53	3.93	595	592.1	1.73	596	590.6	2.43	589	576.43	4.9
		2op	594	589.37	3.61	596	593.03	2.06	595	592	1.88	590	578.27	4.78
	50	rnd	593	587.8	3.45	596	593.03	1.88	596	593.03	1.63	586	580.47	3.19
51	20	rnd	596	591.1	3.11	596	593.67	1.6	596	593.5	1.55	589	581.07	3.86
		2op	592	585.37	4.89	595	591.57	2.39	596	593.43	1.68	594	591	2.67
	50	rnd	595	591.9	3.34	596	594.37	0.93	596	594.83	0.87	596	594.13	1.55
	20	rnd	595	586.93	4.02	595	593.8	0.96	596	593.77	1.41	595	591.4	2.22
		2op	595	592.87	2.6	596	594.8	0.92	596	594.97	0.93	596	592.7	2.09
	50	rnd	595	592.87	2.6	596	594.8	0.92	596	594.97	0.93	596	592.7	2.09

Table A.1184: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	483	435.97	28.97	594	574	22.77	593	587.17	2.78	588	578.47	5.76
		2op	592	590.07	1.36	595	594.37	1.27	595	593.8	1.42	594	588.67	3.48
	50	rnd	493	438.57	30.2	593	568.13	25.34	595	582.33	14.81	593	582.63	6.22
51	20	2op	592	590.3	1.44	595	594.63	1.13	595	594.73	0.45	595	593.37	1.97
		rnd	518	453.63	29.96	587	553.97	23.6	595	585.4	16.32	592	584.73	4.15
	50	2op	592	589.93	1.23	595	594.53	0.51	595	594.67	0.48	595	594.03	0.32
	20	rnd	561	467.6	31.66	588	547.23	26.53	593	563.33	27.29	593	582.67	7.17
		2op	592	590.03	1.27	595	594.3	0.47	595	594.9	0.31	595	594.17	0.46

Table A.1185: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	593	587.23	3.2	595	592.83	1.37	579	573.33	3.39	568	550.73	5.64
		2op	596	594.23	0.94	596	594.97	0.61	594	582.1	4.25	569	557.7	5.41
	50	rnd	594	588.97	2.95	595	592.17	1.72	582	577.5	2.75	575	552.57	6.66
51	20	2op	595	593.8	1.58	596	594.53	0.94	592	583	4	574	558.67	7.99
		rnd	595	588.7	2.97	595	592.97	1.35	593	588.57	2.5	587	578.13	4.11
	50	2op	595	594.13	0.35	596	595.03	0.41	595	594.07	0.69	594	587.73	3.07
	20	rnd	594	591.13	2.46	595	591.8	1.79	591	587.03	2.28	580	568.63	5.87
		2op	596	594.67	0.55	596	595	0.37	595	591.9	2.16	592	578.4	5.41

Table A.1186: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	498	477.93	12.87	582	572.83	5.56	584	573.33	4.51	563	552.3	5.26
		2op	592	591.3	1.12	595	593.17	1.18	592	588.97	1.94	582	570.8	5.9
	50	rnd	523	485.1	13.42	585	577.27	4.62	587	580.7	2.94	576	559.57	6.13
51	20	2op	592	591.2	1.1	595	594.03	0.18	595	592.03	1.99	590	577	6.81
		rnd	540	489.77	13.6	581	551.87	12.09	590	579.33	3.6	575	561.97	6.59
	50	2op	594	591.53	1.01	594	594	0	594	593.53	1.01	592	584.03	3.59
	20	rnd	550	496.23	16.5	565	545.2	13.72	585	580.17	3.45	573	561.27	5.67
		2op	592	591.43	0.97	594	594	0	595	594.07	0.25	592	585.57	4.19

Table A.1187: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	774	760.67	9.81	776	772.63	2.14	776	772.27	2.05	772	754.63	8.74
		2op	772	766.5	2.66	775	772.6	2.03	776	772.3	1.9	768	757.13	4.86
	50	rnd	774	768.03	5.49	776	774.27	1.17	777	774.47	1.74	772	762.5	4.18
51	20	rnd	774	766.73	5.48	777	774.17	1.34	777	773.77	1.52	771	762.37	4
		2op	774	761.33	10.68	775	771.33	2.96	777	773.27	2.24	777	769.57	3.09
	50	rnd	770	767.03	2.03	774	771.73	0.98	775	772.1	0.84	774	771.23	1.33
	20	rnd	775	768.4	6.46	777	773.77	1.61	777	774.8	1.54	777	772.9	2.29
		2op	771	767.67	2.41	775	773.13	1.57	777	774	1.53	774	771.27	1.96

Table A.1188: f_{25_400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	609	482.17	43.8	774	764.47	8.14	775	764.8	6.71	769	752.8	12.94
		2op	769	766.03	2.08	771	769.07	0.45	773	769.4	1.22	772	767.97	1.81
	50	rnd	567	482.2	40.29	775	739.7	38.56	777	769.43	3.32	777	756.37	12.41
51	20	rnd	769	765.43	1.07	769	768.87	0.51	771	769	0.53	769	768.73	0.69
		2op	557	499.07	26.77	761	705.9	50.68	777	767.4	4.99	770	760.4	10.25
	50	rnd	769	766.4	2.92	769	768.47	1.28	772	769.17	0.87	772	768.93	0.87
	20	rnd	586	523.63	34.71	738	652.97	54.95	777	748	21.79	777	763.7	10.38
		2op	769	765.97	1.59	769	769	0	772	769.1	0.55	772	768.97	0.93

Table A.1189: f_{25_400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	774	765.53	5.05	777	773.17	1.88	777	771.77	2.87	767	754.5	7.03
		2op	771	766.13	3.6	777	773.07	1.86	777	771.03	2.53	764	753.17	6.5
	50	rnd	777	768.2	4.84	777	773.63	1.65	777	773.8	1.75	767	759.23	4.99
51	20	rnd	774	767.83	3.1	777	773.83	1.58	776	774.2	1.21	767	760.37	3.9
		2op	776	761.7	12.04	777	771.63	2.74	777	773.4	1.92	777	770.8	3.9
	50	rnd	769	766.37	4.54	776	772.13	1.5	776	772.67	1.4	775	771.67	1.4
	20	rnd	775	769.2	3.75	777	773.97	1.71	777	775.1	1.18	775	771.43	3.15
		2op	775	768.67	2.58	775	772.8	1.27	777	774.07	1.66	777	771.67	2.15

Table A.1190: f_{25_400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	574	491.7	48.07	772	763.5	7.66	773	765.7	6.14	770	752.43	15.25
		2op	769	765.8	1.45	772	768.67	1.32	771	769	0.53	769	767.3	2.71
	50	rnd	598	488.67	41.81	771	751.03	19	776	768.37	3.63	773	757.27	11.06
51	20	2op	769	765.77	1.52	769	768.93	0.37	772	769.17	0.83	769	768.17	1.93
		rnd	594	516.03	33.69	767	704.23	46.78	775	765.43	11.78	771	761.67	9.2
	50	2op	769	765.8	2.27	769	768.47	1.76	772	769.23	0.73	772	768.83	1.05
	50	rnd	571	512.4	32.92	763	688.33	51.65	771	738.37	30.78	777	765.13	6.66
		2op	769	765.9	1.47	769	769	0	769	769	0	769	768.93	0.37

Table A.1191: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	772	765.97	4	775	772.63	1.96	768	753.33	6.94	734	717.97	7.33
		2op	772	768.07	1.93	775	772.47	1.22	769	758.43	5.93	741	729.77	5.99
	50	rnd	776	769.6	3.33	777	773.53	1.91	763	757.2	3.45	739	717.23	8.84
51	20	2op	775	768.73	2.89	775	772.8	1.4	771	761.57	4.83	756	730.13	12.08
		rnd	772	768.07	2.32	777	772.3	2.45	777	768.97	3.01	767	757.2	4.45
	50	2op	771	768.67	1.27	775	771.13	1.31	772	770.07	1.14	769	763.1	3.51
	50	rnd	775	770.7	3.05	775	771.67	2.48	772	768.07	1.95	760	746.1	6.48
		2op	772	769.7	1.24	775	771.97	1.03	772	769.43	1.48	765	753.33	5.32

Table A.1192: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	620	530.33	26.78	762	748.5	9.74	765	751.87	6.91	738	725.13	7.78
		2op	769	767.4	1.77	769	768.4	1.16	769	764.63	2.3	762	743.9	7.43
	50	rnd	593	541.9	24.58	769	739.37	19.97	766	758.6	4.12	746	730.9	8.09
51	20	2op	769	767.83	1.58	769	768.97	0.18	769	768.17	1.26	765	752.7	5.75
		rnd	616	550.03	22.6	707	644.83	28.13	769	757.47	5.71	753	738.07	9.45
	50	2op	769	768.57	1.14	769	768.93	0.25	769	769	0	769	760.67	4.84
	50	rnd	632	568.93	26.69	699	647.6	25.28	771	759.7	4.65	755	738.83	8.89
		2op	769	768.63	0.93	769	768.8	0.76	769	769	0	768	761.8	4.19

Table A.1193: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	916	905	4.91	919	914.77	2.57	921	912.7	3.64	904	897.07	4.83
		2op	917	910.8	4.54	921	916.23	1.94	921	915.83	1.97	908	899.17	5.78
	50	rnd	916	909.4	3.6	919	916.37	2.31	921	917.13	2.13	913	901.87	5.29
51	20	2op	918	912.7	3.8	919	916.9	1.77	921	917.67	1.65	915	904.87	4.96
		rnd	915	904.27	6.09	918	913.13	2.13	919	915.63	2.24	918	912	2.78
	50	2op	916	913.47	2.9	917	915.9	0.92	919	917.1	0.92	921	915.33	2.12
		rnd	916	907.53	3.95	919	914.57	2.56	919	916.53	1.59	918	911.93	2.98
		2op	916	914.17	2.76	921	917.1	1.35	921	918	1.36	918	916.07	1.23

Table A.1194: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	703	587.97	64.06	918	888.8	26.07	915	907.67	4.38	916	899.33	10.86
		2op	916	910.27	3.43	916	915.5	1.53	916	916	0	916	914.7	2.48
	50	rnd	678	597.2	55.91	917	850.37	46.01	915	909.23	3.28	917	903.27	11.02
51	20	2op	916	910.9	3.79	916	915.9	0.55	918	916	0.53	916	915.47	1.61
		rnd	692	630.53	37.53	900	792.37	56.62	916	901.33	15.68	913	905.3	5.68
	50	2op	916	910.13	3.53	916	915.9	0.55	916	916	0	916	915.97	0.18
		rnd	737	638.2	38.74	896	784.77	52.5	908	834.1	42.73	913	906.27	4.15
		2op	916	909.33	3.09	916	916	0	916	916	0	916	915.97	0.18

Table A.1195: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	912	905.27	4.38	919	915.2	2.61	919	913.3	3.15	908	897.03	6.01
		2op	917	911.57	4.24	919	916.23	1.74	921	914.97	2.57	912	897.67	6.1
	50	rnd	914	906.8	3.28	919	915.93	1.55	921	915.77	2.3	912	898.5	4.88
51	20	2op	917	912.77	3.87	921	917.03	1.87	921	916.67	2.04	909	900.7	4.92
		rnd	915	906.33	4.71	917	913.17	2.44	919	914.8	2.47	919	911.6	3.51
	50	2op	917	913.83	3.41	918	915.77	1.77	921	917.13	1.25	919	915.73	1.76
		rnd	918	909.83	3.34	919	915.5	2.26	919	917.4	1.69	918	912.1	3.75
		2op	918	913.97	2.92	921	917.27	1.55	921	918	1.51	918	915.1	2.06

Table A.1196: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	650	575.67	47.99	916	890.47	24.86	917	907.67	4.22	914	893.67	18.66
		2op	916	910.93	3.8	916	915.87	0.57	916	915.77	0.9	916	914.63	2.53
	50	rnd	695	583.97	58.68	909	867.23	36.43	918	911	3.28	917	903.53	7.77
51	20	2op	916	910	3.11	916	915.87	0.57	918	915.77	1.45	916	915.9	0.55
		rnd	718	631.63	45.52	889	800.93	56.42	914	897.83	22.99	914	906	6.5
	50	2op	916	910.2	3.2	916	916	0	916	916	0	916	915.9	0.55
	20	rnd	705	632.13	43.41	898	789.57	45.96	908	825.67	47.8	919	906.7	4.99
		2op	916	910.07	3.69	916	916	0	916	916	0	916	916	0
	50	rnd	705	632.13	43.41	898	789.57	45.96	908	825.67	47.8	919	906.7	4.99
	2op	916	910.07	3.69	916	916	916	0	916	916	0	916	916	0

Table A.1197: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	916	907.27	4.29	919	915.2	1.94	909	892.7	7.02	871	853.97	8.2
		2op	917	914.03	2.72	918	916.7	0.79	911	901.33	6.35	886	866.87	9.37
	50	rnd	914	908.77	3.02	919	915.93	1.8	913	898.53	4.67	874	856.13	9.71
		2op	916	914.5	2.22	918	916.37	1.07	912	903.2	5.03	889	861.13	12.18
51	20	rnd	917	910.1	3.71	919	914.9	2.7	916	910.67	2.89	906	899	3.84
		2op	916	915.83	0.91	918	916.37	0.67	917	915.87	0.68	916	910.27	2.61
	50	rnd	918	911.7	2.84	918	913.8	2.3	915	909.57	2.45	907	888.83	7.86
		2op	916	915.97	0.18	918	916.1	0.4	917	913.6	2.18	912	900.83	5.55

Table A.1198: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	707	657.37	28.07	906	872.9	20.93	911	893.77	7.76	882	859.03	16.67
		2op	916	913.1	2.43	916	916	0	916	913	2.39	908	888.6	9.41
	50	rnd	728	677.87	26.42	904	865.07	29.61	914	901.87	5.39	895	871.63	10.68
51	20	2op	916	913.5	2.4	916	916	0	916	916	0	907	898.43	5.82
		rnd	774	688.97	34.22	847	779.77	24.54	909	897.93	6.84	892	877.57	7.86
	50	2op	916	915.87	0.73	916	916	0	916	916	0	916	907.47	3.55
	20	rnd	771	702.23	26.25	842	778.6	26.2	915	900.33	5.98	894	865.23	16.7
		2op	916	915.3	1.6	916	916	0	916	916	0	913	908.27	2.24
	50	rnd	771	702.23	26.25	842	778.6	26.2	915	900.33	5.98	894	865.23	16.7
	2op	916	915.3	1.6	916	916	916	0	916	916	0	913	908.27	2.24

Table A.1199: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1541	1506.77	21.61	1532	1514.83	10.15	1485	1447.47	20.31	1354	1293.67	30.66
		2op	1552	1529.63	13.39	1547	1521.53	11.81	1517	1464.97	20.71	1422	1339.43	32.89
	50	rnd	1543	1515.93	18.41	1540	1521.27	8.4	1513	1483.63	14.3	1424	1348.73	37.46
		2op	1558	1531.1	15.38	1543	1525.37	9.71	1517	1490.13	13.68	1432	1368.03	33.01
51	20	rnd	1545	1513.57	16.45	1543	1518.3	11.17	1545	1513.53	14.3	1477	1434.93	28.06
		2op	1558	1544.1	10.2	1558	1539.13	12.23	1553	1538.07	7.62	1536	1504.67	18.47
	50	rnd	1549	1517.77	17.61	1546	1531.17	9.2	1550	1524.7	8.66	1480	1429.87	26.75
		2op	1562	1544	11.76	1564	1543.17	8.49	1562	1539.8	8.71	1531	1487.5	18.87

Table A.1200: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1036	944.67	48.73	1519	1428.63	64.84	1488	1361.6	57.53	1346	1209.13	55.29
		2op	1564	1550.77	10.92	1565	1555.9	3.7	1558	1545.67	7.37	1518	1486.23	17.85
	50	rnd	1048	948.53	49.43	1535	1461.77	62.57	1525	1415.8	55.55	1364	1251.2	62.37
		2op	1555	1552.33	5.04	1565	1560.93	4.15	1565	1554.87	5.11	1541	1516.9	10.58
51	20	rnd	1046	955.93	42.42	1491	1285.77	107.87	1494	1409.4	48.33	1420	1280.93	61.47
		2op	1556	1552.07	4.46	1565	1558.27	4.68	1565	1557.17	4	1561	1540.4	8.67
	50	rnd	1071	947.63	48.05	1368	1200.23	72.88	1527	1450.03	42.37	1430	1301.4	62.79
		2op	1556	1554	1.2	1565	1559.13	4.24	1565	1560.3	4.08	1560	1545.8	6.32

Table A.1201: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1543	1509.57	18.27	1528	1510.83	8.95	1502	1446.97	24.63	1346	1279.83	32.49
		2op	1554	1529.13	17.27	1533	1517.43	8.36	1514	1467.2	19.2	1383	1319.77	30.78
	50	rnd	1534	1508.33	18.2	1532	1517.37	7.1	1506	1476.13	14.95	1405	1332.03	33.96
		2op	1560	1532.77	16.91	1546	1524.83	9.68	1524	1493.63	14.33	1455	1368.17	37.39
51	20	rnd	1541	1506.53	24.55	1539	1519.1	13.05	1539	1514.87	11.35	1476	1425.27	28.44
		2op	1562	1543.03	15.21	1562	1542.13	9.42	1565	1541.1	11.98	1525	1505.67	12.74
	50	rnd	1558	1514.83	25.31	1546	1530.13	9.64	1543	1526.57	10.13	1460	1423.37	22.76
		2op	1559	1542.5	11.58	1556	1540.77	8.63	1552	1535.23	10.32	1515	1488	15.97

Table A.1202: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1021	951.4	39.31	1522	1428.73	47.05	1435	1334.13	63.5	1333	1197.2	50.56
		2op	1556	1553.23	2.58	1565	1558.2	4.32	1561	1545.1	9.56	1530	1484.4	19.77
	50	rnd	1063	958.1	41.72	1530	1434.4	94.32	1491	1419.97	53.12	1307	1230.2	40.3
51	20	2op	1556	1551.77	6.26	1565	1560	5.71	1564	1553.47	5.89	1546	1514.43	17.21
		rnd	1038	960.13	38.28	1474	1333.53	113.95	1494	1420.6	56.67	1433	1299.83	65.87
	50	2op	1555	1552.23	6.3	1565	1560.03	4.87	1565	1556.37	3.25	1554	1540.37	8.35
	20	rnd	1061	960.4	50.2	1402	1209.93	91.12	1526	1449.43	42.43	1436	1296.67	54.08
		2op	1555	1553.27	3.05	1565	1559.93	4.79	1565	1559.03	4.37	1563	1545.43	7.78

Table A.1203: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1549	1511.8	23.41	1541	1515.1	14.05	1459	1394.2	29.9	1238	1165.4	24.79
		2op	1565	1546.83	10.96	1560	1543.27	9.16	1535	1480.17	32.64	1292	1257.2	22.76
	50	rnd	1551	1518.57	14.39	1531	1516.07	9.18	1456	1411.9	23.35	1312	1220.97	38.68
51	20	2op	1557	1542.73	11.09	1556	1531.9	12.64	1521	1468.6	26.38	1373	1288.57	48.19
		rnd	1545	1519.7	14.11	1554	1533.17	12.19	1490	1458.2	15.88	1393	1345	15.92
	50	2op	1564	1556.03	2.24	1566	1562.7	3.46	1554	1539.67	15.54	1491	1443.57	20.05
	20	rnd	1547	1530.4	10.43	1546	1527	9.35	1484	1456.3	13.18	1411	1356.03	23.81
		2op	1566	1555.03	6.57	1566	1555.8	4.46	1540	1503.7	19.77	1503	1443.17	32.88

Table A.1204: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1064	996.7	39.06	1310	1246.3	30.83	1330	1256.33	31.38	1193	1097.4	35.48
		2op	1556	1553.93	1.05	1555	1553.63	1.75	1553	1512.77	25.43	1457	1379.37	35.14
	50	rnd	1037	993.27	25.61	1328	1282.53	31.08	1403	1312.7	33.18	1220	1152.13	29.63
51	20	2op	1556	1554.4	0.97	1555	1553.97	1.13	1555	1532.07	14.86	1517	1439.47	38.49
		rnd	1086	1029.43	30.31	1155	1113.6	19.2	1379	1318.53	33.53	1279	1186.83	41.51
	50	2op	1556	1554.27	1.01	1561	1554.83	1.97	1555	1545.63	8.37	1540	1497.4	19.28
	20	rnd	1106	1030.33	34.4	1151	1116.43	20.39	1406	1336.03	31.04	1287	1146.4	49.79
		2op	1563	1555.37	1.9	1564	1555.93	2.97	1555	1548.67	5.24	1553	1522.33	22.54

Table A.1205: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1527	1488.17	19.65	1535	1510.43	10.9	1473	1424.27	24.4	1342	1282.53	28.69
		2op	1557	1513.57	20.08	1543	1514.3	12.53	1526	1456.63	29.2	1413	1317.57	32.9
	50	rnd	1526	1494.07	15.29	1532	1511.8	11.24	1505	1474.17	21.37	1369	1317.4	30.99
51	20	2op	1539	1514.43	16.82	1542	1518.4	11.53	1520	1486.8	19.27	1401	1353.63	23.55
		rnd	1524	1488.47	21	1538	1511.07	13.44	1529	1502.6	12.73	1478	1425.57	23.84
	50	2op	1556	1526.37	13.36	1544	1530.43	10.75	1550	1530.83	10.13	1535	1492.6	14.31
	20	rnd	1531	1498.43	18.26	1548	1521.3	10.63	1539	1521.53	11.65	1477	1421.37	24.48
		2op	1556	1527.67	17.32	1549	1531.5	10.15	1550	1534.9	8.58	1516	1472.2	21.34
	50	rnd	1531	1498.43	18.26	1548	1521.3	10.63	1539	1521.53	11.65	1477	1421.37	24.48
	50	2op	1556	1527.67	17.32	1549	1531.5	10.15	1550	1534.9	8.58	1516	1472.2	21.34

Table A.1206: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	993	850.53	62.1	1485	1414.3	47.31	1405	1300.97	65.41	1283	1173.2	58.46
		2op	1531	1527.73	6.79	1551	1531.67	6.46	1531	1518.03	11.01	1500	1459.67	21.34
	50	rnd	977	853	57.17	1485	1435.9	36.8	1450	1369.13	52.74	1352	1201.53	67.92
51	20	2op	1531	1529.87	3.04	1555	1539.77	9.59	1551	1529.27	7.88	1515	1485.53	16.68
		rnd	1018	863.83	49.85	1428	1228.47	85.19	1492	1382.17	55.57	1388	1268.3	50.8
	50	2op	1531	1528.13	6.81	1552	1534.27	6.44	1550	1531.07	5.49	1531	1513.03	11.18
	20	rnd	955	849.03	47.55	1361	1134.6	92.56	1492	1419.93	41.7	1372	1275.63	64.45
		2op	1531	1530.77	1.28	1547	1531.5	4.65	1555	1533.5	7.14	1531	1521.33	8.04
	50	rnd	955	849.03	47.55	1361	1134.6	92.56	1492	1419.93	41.7	1372	1275.63	64.45
	50	2op	1531	1530.77	1.28	1547	1531.5	4.65	1555	1533.5	7.14	1531	1521.33	8.04

Table A.1207: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1522	1485.77	21.88	1533	1510.47	10.07	1470	1429.47	21.45	1332	1268.67	25.6
		2op	1548	1511	25.3	1534	1509.47	10.83	1486	1451.7	21	1404	1317.47	34.09
	50	rnd	1534	1491.8	21.09	1533	1513.27	12.67	1510	1468.57	15.67	1375	1312	30.61
51	20	2op	1549	1508.53	19.94	1541	1517.33	11.28	1503	1477.17	16.68	1434	1339.67	40.73
		rnd	1539	1487.33	26.02	1536	1511.9	15.66	1530	1502.87	14.35	1511	1422.33	29.33
	50	2op	1556	1521.8	16.63	1543	1530.53	8.91	1551	1532.13	9.67	1520	1491.27	14.17
	20	rnd	1539	1500.37	21.75	1543	1519.8	13.31	1541	1519	11.72	1499	1424.97	27.7
		2op	1552	1526.2	12.93	1552	1533.03	8.97	1549	1533.03	9.49	1506	1467.77	20.01
	50	rnd	1539	1500.37	21.75	1543	1519.8	13.31	1541	1519	11.72	1499	1424.97	27.7
	50	2op	1552	1526.2	12.93	1552	1533.03	8.97	1549	1533.03	9.49	1506	1467.77	20.01

Table A.1208: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	961	857.97	52.56	1492	1403.93	51.76	1406	1311.23	51.73	1304	1178.23	58.79
		2op	1531	1527.4	6.58	1552	1534.27	6.81	1537	1515.93	8.91	1496	1447.1	18.59
	50	rnd	946	850.17	54.71	1504	1433.27	37.34	1426	1350.47	54.71	1357	1218.73	56.85
51	20	2op	1531	1530.5	1.91	1555	1540.53	8.14	1542	1529.37	4.81	1520	1482.7	17.06
		rnd	960	863.67	45.84	1443	1289.27	95.14	1493	1393.13	49.71	1359	1254.23	56.25
	50	2op	1531	1529.2	4.49	1552	1534.1	6.94	1552	1530.97	6.24	1541	1515.27	10.49
	20	rnd	1006	871.9	53.92	1315	1169.23	85.59	1477	1405.3	55.63	1421	1278.27	73.93
		2op	1531	1530.77	1.28	1555	1533.4	6.68	1550	1534.57	6.45	1531	1521.07	6.33

Table A.1209: f_{50_412} : transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1520	1490.37	19.75	1548	1516.6	13.9	1446	1387.6	24.27	1205	1142.83	25.4
		2op	1552	1523.9	12.66	1547	1532	8.12	1502	1455.23	28.79	1319	1235.8	25.39
	50	rnd	1530	1506.87	15.38	1530	1510.7	14.22	1476	1395.5	32.78	1321	1222.03	44.14
51	20	2op	1552	1530.37	10.86	1551	1526.83	10.85	1499	1450.67	31.41	1340	1254.3	37.48
		rnd	1536	1503.03	14.35	1544	1526.07	9.94	1474	1439.7	15.16	1375	1335.93	18.62
	50	2op	1556	1539.87	7.64	1559	1552.93	4.41	1537	1517.4	14.71	1500	1425.07	22.83
	20	rnd	1538	1511.3	16.87	1538	1517.03	13.01	1480	1443.83	14.76	1414	1351.7	28.95
		2op	1556	1543.83	9.41	1556	1545.27	8.41	1531	1496	17.12	1480	1434.7	30.71

Table A.1210: f_{50_412} : basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	986	907.57	37.21	1264	1191.13	32.89	1322	1238.93	32.65	1183	1096.23	34.49
		2op	1531	1530.93	0.37	1531	1530.17	2.55	1512	1488.33	18.74	1438	1337.83	44.35
	50	rnd	1043	909.63	43.25	1281	1211.8	34.04	1350	1290.17	31.09	1185	1127.57	31.63
51	20	2op	1531	1531	0	1531	1530.67	1.3	1526	1501.1	14.04	1520	1416.1	35.42
		rnd	1015	940.5	38.05	1144	1035.2	38.22	1341	1292.5	27.85	1303	1160.1	45
	50	2op	1531	1531	0	1531	1531	0	1531	1521.63	9.59	1520	1474.03	24.35
	20	rnd	1009	923.9	29.87	1118	1047.67	29.11	1383	1319.17	28.89	1223	1122.53	38.18
		2op	1531	1531	0	1531	1531	0	1531	1525.4	6.68	1531	1484.93	24.61

Table A.1211: f_{50_412} : transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1524	1485.73	17.93	1518	1501.97	9.28	1475	1432.53	19.07	1384	1301.6	38.8
		2op	1540	1514.6	15.75	1536	1508.27	11.31	1493	1449.37	20.88	1387	1323.5	25.86
	50	rnd	1515	1491.27	15.27	1532	1506.6	9.42	1488	1462.07	13.44	1397	1336.83	34.21
51	20	2op	1535	1507.53	17.21	1531	1509.83	8.02	1503	1475.33	15.24	1421	1352.57	26.52
		rnd	1523	1492.83	14.57	1523	1506.93	9.67	1520	1501	9.56	1479	1442.17	17.48
	50	2op	1548	1533.57	13.55	1549	1530.57	8.47	1549	1530.1	11.58	1527	1490.1	15.02
	20	rnd	1528	1499.57	13.37	1537	1511.83	9.17	1542	1512.57	11.66	1469	1435.1	19.66
		2op	1549	1529.7	13.63	1548	1527.6	10.14	1542	1522.37	11.55	1509	1474.67	21.02
	50	rnd	1528	1499.57	13.37	1537	1511.83	9.17	1542	1512.57	11.66	1469	1435.1	19.66

Table A.1212: $f_{50.498}$: basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1073	895.53	55.38	1477	1413.1	44.09	1408	1328.33	52.66	1359	1223.87	58.18
		2op	1548	1544.9	7.26	1548	1546.7	3.46	1548	1538.23	7.26	1509	1474.03	23.63
	50	rnd	991	891.53	51.27	1507	1439.9	35.25	1470	1370.3	50.85	1328	1247.3	41.12
51	20	2op	1548	1545.67	10.89	1549	1547.03	2.77	1548	1547.13	3.06	1538	1506.93	20.67
		rnd	1036	927.43	53.51	1468	1290.57	81.78	1502	1406.27	48.9	1384	1281.57	49.4
	50	2op	1548	1547	3.81	1549	1545.43	8.19	1548	1546.6	3.86	1546	1527.83	14.01
	20	rnd	993	919.2	32.25	1393	1204.97	63.5	1486	1423.3	30.71	1339	1276.6	41.83
		2op	1548	1548	0	1548	1548	0	1548	1547.87	0.73	1548	1537.3	7.67
	50	rnd	993	919.2	32.25	1393	1204.97	63.5	1486	1423.3	30.71	1339	1276.6	41.83

Table A.1213: $f_{50.498}$: transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1517	1488.37	14.79	1520	1499.73	8.6	1468	1429.97	22.16	1332	1286.53	24.72
		2op	1548	1508.4	20.22	1531	1504.47	10.51	1508	1445.8	23.38	1387	1320.6	28.54
	50	rnd	1527	1487.67	20.22	1529	1508.63	10.55	1477	1455.57	12.25	1393	1326.37	35.16
51	20	2op	1544	1511.23	14.48	1534	1508.23	9.9	1507	1471.53	16.86	1426	1355.9	35.32
		rnd	1516	1490.1	14.55	1522	1504.03	9.69	1520	1499.93	11.74	1464	1434.33	16.39
	50	2op	1548	1530.53	13.24	1548	1525.7	10.7	1548	1528.73	9.32	1516	1485.7	17.48
	20	rnd	1523	1494.77	13.58	1526	1512.33	7.13	1530	1512	8.49	1479	1428.97	21.26
		2op	1548	1528.9	16.36	1550	1528.47	11.86	1548	1529.63	11.99	1526	1481.5	22.3
	50	rnd	1523	1494.77	13.58	1526	1512.33	7.13	1530	1512	8.49	1479	1428.97	21.26

Table A.1214: $f_{50.498}$: basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	997	897.67	47.55	1479	1415.03	48.09	1419	1344.27	38.09	1301	1203.8	48.49
		2op	1548	1545.03	8.43	1548	1546.33	4.14	1548	1536.03	9.46	1513	1466.17	21.2
	50	rnd	993	885.97	47.94	1509	1457.67	28.77	1436	1355.37	45.05	1346	1232.2	63.2
51	20	2op	1548	1547.13	4.75	1548	1546.63	3.4	1548	1544.3	6.55	1530	1500.97	18.19
		rnd	1019	916.43	47.74	1428	1265.7	84.23	1464	1398.43	41.73	1363	1286.17	50.37
	50	2op	1548	1546.37	5.16	1548	1546.63	3.76	1548	1546.37	3.6	1548	1532.47	9.94
	20	rnd	1015	923.8	55.16	1435	1205.2	74.45	1495	1428.67	43.27	1373	1288.83	47.74
		2op	1548	1548	0	1548	1548	0	1549	1548.03	0.18	1548	1539.1	8.1

Table A.1215: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1521	1492.63	12.65	1546	1504.73	13.42	1464	1401.4	33.42	1228	1147.4	27.56
		2op	1548	1535.77	13.89	1548	1533.97	11.03	1520	1470.5	34.08	1283	1242.63	24.97
	50	rnd	1514	1494.73	12.77	1511	1498.53	7.81	1456	1413.93	24.35	1287	1225.53	34.97
51	20	2op	1548	1530.93	8.6	1548	1525.67	9.64	1514	1464.07	34.47	1429	1270.37	54.16
		rnd	1526	1501.3	12.83	1539	1520.57	8.67	1483	1451.03	13.94	1380	1342.5	18.72
	50	2op	1549	1548.03	0.18	1551	1548.67	0.71	1548	1533.87	11.79	1506	1443.37	27.55
	20	rnd	1528	1508.3	9.07	1528	1508.47	10.46	1469	1446.13	10.93	1423	1356.57	30.76
		2op	1549	1546.7	3.55	1549	1546.77	2.85	1548	1504.5	21.22	1501	1434.9	34.85

Table A.1216: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1045	959.1	35.95	1288	1235.53	26.27	1292	1241.27	25.73	1156	1100.53	30.42
		2op	1548	1548	0	1548	1548	0	1536	1507.47	20.65	1493	1382.93	54.29
	50	rnd	1050	961.7	40.19	1307	1250.67	24.2	1378	1297.43	31.52	1229	1150.8	29.08
51	20	2op	1548	1548	0	1548	1547.5	2.74	1548	1528.77	14.86	1519	1446	41.65
		rnd	1079	984.3	44.14	1184	1114.1	31.12	1352	1295.07	24.93	1254	1171.57	38.06
	50	2op	1548	1548	0	1548	1548	0	1548	1542.9	7.55	1548	1489.57	34.53
	20	rnd	1058	996.53	28.87	1149	1112.67	20.27	1390	1326.57	35.51	1232	1157.37	36.81
		2op	1548	1548	0	1548	1548	0	1548	1544.77	5.09	1548	1520.63	16.09

Table A.1217: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2606	2550.7	26.01	2563	2511.07	26.63	2452	2363.2	47.06	2255	1965.67	92.19
		2op	2651	2611.07	25.99	2611	2557	25.71	2515	2419.93	51.01	2219	2073.1	63.77
	50	rnd	2632	2588.1	23.76	2623	2557.1	21.44	2517	2428	42.19	2280	2091.5	85.03
51	20	2op	2672	2624.67	23.01	2612	2573.7	18	2568	2481.9	52.18	2290	2166.43	68.95
		rnd	2605	2562.47	25.86	2598	2577.67	12.82	2528	2477.17	30.22	2391	2285.97	39.23
	50	2op	2691	2652.2	22.17	2668	2634.47	19.66	2636	2593.37	28.42	2494	2400.03	36.68
	20	rnd	2644	2606.57	17.29	2614	2585.87	13.57	2561	2518.87	22.46	2486	2362.97	55.36
		2op	2720	2668.63	23.35	2687	2623.1	21.88	2663	2599.57	31.37	2552	2460.43	56.2

Table A.1218: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1456	1393.97	46.6	2040	1928.63	57.79	1858	1760.47	44.03	1687	1621.53	41.46
		2op	2762	2750.4	18.49	2762	2732.2	19.58	2737	2660.57	39.88	2630	2444.47	71.24
	50	rnd	1513	1414.87	54.22	2188	2012.23	86.83	1967	1864.5	54.56	1756	1644.73	53.4
51	20	2op	2762	2753.63	11.42	2762	2748.97	14.12	2759	2701.7	34.05	2684	2534.23	78.29
		rnd	1534	1456.8	38.62	2069	1935.53	61.91	2039	1884.07	61.63	1887	1699.7	61.65
	50	2op	2762	2752.03	13.54	2762	2752.4	11.22	2762	2731.87	25.12	2714	2608.5	47.45
	20	rnd	1506	1440.7	38.37	2046	1887.47	86.49	2100	1935.07	69.23	1826	1710.1	58.8
		2op	2762	2755.27	11.64	2762	2757.13	7.86	2762	2750.03	14.73	2759	2657.03	55.16

Table A.1219: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2608	2554.4	21.99	2565	2512.23	24.87	2463	2376.4	49.42	2134	1935.83	99.69
		2op	2638	2590.57	28.08	2652	2546.67	34.45	2505	2415.73	59.54	2160	2021.37	64.01
	50	rnd	2617	2583.2	18.69	2588	2551.6	16.94	2532	2416.03	47.15	2242	2097.9	73.81
51	20	2op	2656	2624.97	17.14	2621	2576.53	22.72	2575	2467.2	47.45	2301	2169.93	78.07
		rnd	2617	2563.77	30.25	2612	2577.73	14.65	2552	2475.5	33.81	2391	2298.53	55.01
	50	2op	2700	2657.2	27.21	2692	2641.77	22.7	2662	2600.57	33.6	2525	2417.8	44.44
	20	rnd	2645	2604.33	21.11	2617	2583.77	15.48	2587	2515.83	26.46	2476	2364.27	53.18
		2op	2717	2674.43	24.1	2669	2623.53	21.25	2664	2591.2	36.55	2522	2444.17	56.23

Table A.1220: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1507	1406.63	54.7	2067	1939.97	72.34	1951	1770.97	62.76	1782	1612.73	54.72
		2op	2762	2747.07	18.26	2762	2725.6	21.02	2710	2631.97	50	2573	2439.47	64.05
	50	rnd	1542	1411.37	45.88	2189	2014.2	81.07	1982	1842.97	62.66	1739	1641.13	56.31
51	20	rnd	2762	2756.17	9.57	2762	2746.57	15.29	2762	2698	30.23	2673	2521.77	74.14
		2op	1517	1440.4	49.4	2121	1945.33	83.11	2033	1879.73	69.78	1868	1713.57	63.14
	50	rnd	2762	2757.43	9.78	2762	2755.87	9.56	2762	2730.27	25.02	2736	2624.9	57.8
	20	rnd	1517	1446.2	57.93	2074	1915.47	96.89	2036	1941.83	57.76	1861	1729.33	56.44
		2op	2762	2758.87	8.16	2762	2757.13	8.73	2762	2749.17	12.5	2732	2660.57	44.55

Table A.1221: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2609	2565.5	19.2	2593	2531.17	26.85	2486	2383.03	63.66	1942	1764.8	66.61
		2op	2714	2648.93	27.1	2680	2629.17	28.69	2587	2464.97	53.63	2078	1953.03	50.5
	50	rnd	2659	2606.03	19.87	2598	2543.87	22.88	2538	2419.53	48.35	2153	1968.53	85.68
51	20	rnd	2698	2654.67	17.35	2683	2621.83	26.73	2583	2493.07	54.28	2207	2050.17	74.22
		2op	2625	2589.53	21.02	2648	2602.43	16.21	2570	2492.77	40.58	2261	2164.47	50.32
	50	rnd	2762	2744.87	16.34	2762	2746.23	14.14	2736	2680.53	30.86	2504	2338.5	58.02
	20	rnd	2658	2613.33	20.06	2651	2584.97	20.28	2551	2488.83	29	2411	2281.83	54.99
		2op	2744	2718.6	18.05	2739	2708.43	20.46	2679	2618.3	41.09	2477	2376.8	59.36

Table A.1222: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1524	1470.17	34.2	1784	1715.53	31.85	1809	1718.57	35.77	1556	1495.63	32.3
		2op	2762	2758.07	8.17	2762	2754.43	11.16	2724	2627.23	53.22	2539	2317.03	90.45
	50	rnd	1543	1494.17	29.6	1856	1755.77	32.28	1948	1811.07	61.57	1603	1533.27	37.28
51	20	rnd	2762	2760.17	6.05	2762	2753.2	17.2	2745	2677.67	37.44	2597	2467.5	59.43
		2op	1555	1511.47	23.13	1631	1579.7	20.79	1918	1811.3	48.3	1691	1586.53	40.62
	50	rnd	2762	2761.67	1.83	2762	2760.13	5.9	2762	2719.4	33.83	2640	2555.5	57.71
	20	rnd	1544	1496.67	23.48	1646	1586.47	24.15	1917	1837.3	47.1	1683	1564.67	47.52
		2op	2762	2762	0	2762	2760.07	4.22	2762	2725.37	29.52	2741	2617.7	55.15

Table A.1223: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2665	2618.33	26.06	2620	2576.6	27.33	2496	2408.03	63.33	2166	1963	95.42
		2op	2722	2661.47	25.41	2686	2615.7	34.08	2593	2461.37	63.58	2228	2082.27	64.5
	50	rnd	2706	2657.3	22.25	2666	2628.3	21.16	2590	2499.67	49.85	2315	2141.93	80.96
51	20	rnd	2734	2689.4	20.43	2681	2638.97	18.78	2630	2540.67	48.33	2329	2191.2	72.77
		2op	2654	2607.93	26.14	2700	2653.23	21.16	2604	2526.07	34.14	2447	2321	76.41
	50	rnd	2744	2700.83	22.18	2737	2685.6	18.41	2697	2646.43	25.35	2521	2458.33	38.96
	20	rnd	2706	2664.13	22.44	2692	2658.13	15.71	2666	2588	36.45	2518	2406.47	59.31
		2op	2771	2727.77	24.05	2724	2686.37	17.04	2724	2654.47	26.1	2607	2505.73	65.94

Table A.1224: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1451	1332.4	46.95	2114	2003.2	63.64	1975	1815.2	77.35	1723	1574.7	81.73
		2op	2804	2792.07	14.4	2804	2780.7	15.83	2785	2709.4	35.11	2661	2491.73	77.81
	50	rnd	1447	1351.2	36.94	2257	2078.6	101.6	1984	1871.7	63.25	1753	1621.23	74.64
51	20	rnd	2804	2795.2	15.41	2804	2793.8	9.87	2804	2746.27	33.62	2715	2589.23	66.66
		2op	1424	1352.83	38.07	2192	1976.43	107.72	2141	1943.97	81.41	1803	1691.9	78.79
	50	rnd	2804	2796.53	12.88	2804	2794.03	10.89	2804	2763.5	26.4	2764	2636.9	58.09
	20	rnd	1477	1356.63	40.08	2092	1910.8	98.61	2160	1992.07	89.07	1857	1704.17	70.2
		2op	2804	2802.03	4.8	2804	2799.1	8.19	2804	2790.33	12.91	2797	2706.1	48

Table A.1225: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2679	2617.57	35.26	2632	2574.97	29.02	2489	2389.63	68.98	2119	1941.63	77.04
		2op	2710	2659.9	25.47	2705	2604.1	42.75	2600	2459	73.47	2167	2063.43	68.58
	50	rnd	2679	2649.63	18.93	2664	2625.4	19.67	2590	2466.43	53.95	2264	2114.43	79.75
51	20	rnd	2715	2681.8	18.38	2685	2631.1	23.88	2611	2522.03	48.91	2343	2179.87	70.66
		2op	2674	2625	22.42	2690	2649.03	15.46	2611	2530.87	38.33	2467	2321	59.65
	50	rnd	2758	2695.03	27.46	2758	2686.87	23.63	2705	2636.73	33.61	2570	2457.7	43.15
	20	rnd	2686	2659.33	18.04	2722	2660.93	16	2652	2578.3	29.01	2504	2394.07	62.75
		2op	2751	2713.67	20.58	2717	2678.93	16.86	2706	2646.5	32.54	2606	2502.53	59.6

Table A.1226: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1430	1335.07	41.68	2101	1976.9	104.57	1894	1789.53	61.81	1719	1584.77	73.93
		2op	2804	2784.8	23.2	2804	2769.67	24.95	2765	2683.53	47.43	2637	2487.1	69.05
	50	rnd	1484	1345.07	56.61	2264	2058.43	81.07	2000	1868.93	84.44	1773	1623.57	78.47
51	20	rnd	2804	2796.93	9.1	2804	2785.93	16.13	2796	2740.97	35.31	2702	2563.9	68.59
		2op	1414	1343.53	34.6	2228	1956	114.35	2056	1935.97	82.61	1783	1671	67.4
	50	rnd	2804	2793.27	10.43	2804	2793.5	11.75	2801	2770.63	19.17	2750	2654.6	51.93
	20	rnd	1419	1355.77	31.47	2161	1911.63	149.21	2085	1980.93	75.08	1943	1702	82.72
		2op	2804	2798.53	11.11	2804	2801.4	5.88	2804	2791.03	12.57	2776	2710.47	51.31

Table A.1227: f_{100_415} : transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2698	2629.7	29.24	2678	2602.83	32.47	2491	2420.4	38.7	1919	1748.43	76.31
		2op	2773	2697.9	29.04	2761	2680.43	29.83	2596	2492.53	70.97	2097	1977.53	37.89
	50	rnd	2716	2665.47	26.56	2665	2614.87	26.14	2583	2463.57	49.47	2112	1981	68.96
51	20	rnd	2741	2709.43	14.51	2715	2672.33	24.99	2631	2535.3	49.23	2310	2050.53	79.8
		2op	2699	2645.57	24.63	2744	2677.9	22.71	2640	2565.2	35.3	2272	2167.93	57.58
	50	rnd	2804	2792.87	10.82	2804	2792.37	11.17	2764	2719.97	30.88	2561	2380.27	70.43
	20	rnd	2741	2676.23	22.6	2689	2654.7	21.72	2619	2556.2	40.18	2454	2314.57	69.3
		2op	2802	2761.53	19.37	2797	2750.93	22.11	2715	2669.23	30.67	2546	2431.63	55.42

Table A.1228: f_{100_415} : basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1452	1386.83	29.61	1786	1685.73	40.83	1796	1723.3	34.51	1554	1488.5	35.02
		2op	2804	2798.4	9.96	2804	2796.77	11.06	2740	2667.33	44.91	2519	2343.5	86.78
	50	rnd	1451	1397.13	24.58	1819	1723.57	39.19	1921	1818.43	50.35	1668	1542.9	47.27
51	20	rnd	2804	2799.97	7.23	2804	2793.47	11.11	2781	2721.4	32.62	2640	2481.47	80.66
		2op	1463	1400.77	30	1539	1498.83	23.03	1931	1830.4	51.91	1709	1602.6	48.97
	50	rnd	2804	2801.87	6.69	2804	2800.9	8	2804	2757.5	23.04	2692	2600.23	55.06
	20	rnd	1496	1408.23	28.47	1577	1506.87	27.65	2026	1887.9	69.76	1747	1580.03	69.82
		2op	2804	2804	0	2804	2802.63	4.68	2804	2769.9	24.44	2745	2665.43	48.25

Table A.1229: f_{100_415} : transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2541	2492.4	23.97	2533	2468.43	29.87	2433	2285.77	68.19	1975	1882.7	58.17
		2op	2610	2550.6	27.6	2555	2501.97	32.01	2463	2381.63	58.43	2152	2046.47	51.7
	50	rnd	2580	2530.07	23.32	2552	2503.1	23.09	2473	2354.87	48.55	2145	2033.93	66.57
51	20	rnd	2616	2567.5	25.58	2598	2521.8	22.75	2504	2410.87	36.04	2216	2091.2	69.48
		2op	2569	2495.37	28.07	2553	2524	14.17	2510	2424.9	38.48	2363	2207.37	55.63
	50	rnd	2640	2591.8	22.96	2623	2582.7	19.69	2611	2532.2	31.47	2451	2368.9	38.28
	20	rnd	2588	2536.9	22.18	2548	2530.97	12.21	2507	2463.47	26.25	2424	2296.37	53.15
		2op	2649	2610.6	25.79	2623	2582.07	16.69	2609	2543.73	32.17	2500	2415.8	48.12

Table A.1230: $f_{100.512}$: basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1490	1375.3	50.46	2213	2006.43	82.58	1947	1815.1	69.19	1813	1600.73	75.64
		2op	2696	2680.2	14.42	2694	2669	17.04	2665	2587.17	35.33	2497	2382.37	58.63
	50	rnd	1448	1371.87	42.69	2197	2057.93	68.05	1978	1903.27	51.19	1792	1667.33	76.33
51	20	rnd	2695	2684.47	11.75	2700	2681.13	13.18	2688	2632.07	31.28	2608	2472.97	65.77
		2op	1461	1383.6	40.83	2185	1977.53	98.45	2067	1931.8	74.3	1826	1724.5	62.71
	50	rnd	2695	2686.77	12.08	2695	2684.97	12.84	2687	2656.43	19.81	2639	2560.87	46.41
	20	rnd	1456	1374.1	34.94	2141	1961.43	111.65	2161	1994.73	75.99	1960	1731.57	84.1
		2op	2695	2690.2	6.17	2696	2690.4	6.66	2696	2679.8	11.13	2663	2601.9	45.36

Table A.1231: $f_{100.512}$: transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2539	2492.87	24.16	2527	2468.9	32.65	2421	2313.73	62.52	2073	1866.1	80.54
		2op	2582	2532.57	26.62	2545	2488.17	31.09	2476	2370.87	58.47	2199	1992.93	67.38
	50	rnd	2578	2516.2	25.44	2547	2497.97	18.32	2411	2348.53	44.59	2168	2042.57	80.05
51	20	rnd	2633	2572.7	26.38	2570	2523.9	23.23	2511	2426.2	50.71	2223	2102	70.04
		2op	2548	2492	24.87	2559	2520.67	17.28	2490	2415.43	32.45	2312	2225.4	50.75
	50	rnd	2656	2600.27	33.04	2639	2584.17	24.17	2639	2546.2	38.98	2467	2363.47	42.85
	20	rnd	2585	2538.9	25.63	2567	2528.87	13.96	2510	2457.83	29.89	2378	2299.1	37.85
		2op	2654	2605.73	24.68	2615	2573.77	19.55	2615	2532.4	37.96	2511	2403.47	56.09

Table A.1232: $f_{100.512}$: basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1468	1366	40.97	2110	1990.47	65.91	1954	1828	70.72	1721	1610.9	59.62
		2op	2695	2681.53	14.74	2693	2660.37	16.89	2667	2582.57	40.63	2514	2384.93	66.2
	50	rnd	1524	1383.73	45.2	2248	2049.2	74.79	2030	1870.47	59.96	1757	1647.93	62.28
51	20	2op	2695	2685.07	11.18	2696	2682.33	12.93	2671	2632.8	23.87	2607	2472.1	73.38
		rnd	1476	1392.23	49.58	2159	2008.6	76.24	2085	1936.27	76.26	1908	1723.37	68.26
	50	2op	2695	2687.7	7.58	2696	2681.93	10.62	2695	2656.57	17.65	2665	2564.7	54.49
	20	rnd	1462	1381.9	32.74	2193	1959.13	112.78	2098	1994.37	65.44	1857	1713.3	66.62
		2op	2695	2688.73	8.54	2696	2689.43	8.61	2695	2676.77	13.3	2647	2582.1	46.57

Table A.1233: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2546	2505.83	21.67	2543	2477.4	30.09	2400	2316.03	56.3	1881	1718.4	71.87
		2op	2664	2609.87	29.73	2662	2593.37	35.62	2512	2425.13	58.6	2071	1957.03	45.01
	50	rnd	2579	2536.87	16.46	2528	2487.93	20.25	2486	2343.37	60.45	2055	1925.93	65.55
51	20	2op	2641	2600.03	23.92	2621	2569.03	27.86	2521	2443.63	44.31	2172	2002.67	83.3
		rnd	2549	2521.13	15.57	2588	2546.07	16.37	2513	2449.37	26.66	2267	2098.63	52.91
	50	2op	2696	2680.9	15.27	2696	2680.1	13.65	2692	2616.67	38.63	2414	2289.27	38.33
	20	rnd	2567	2540.8	16.19	2574	2524.9	22.13	2491	2431.7	31.06	2331	2236.7	52.97
		2op	2696	2661.23	21.73	2696	2654.97	25.44	2606	2563.13	25.88	2497	2358.8	49.54

Table A.1234: f_{100_512} : basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1480	1427.8	31.29	1835	1737.5	37.13	1867	1708.3	50.83	1555	1479.77	31.38
		2op	2695	2686.4	11.7	2695	2679.43	14.13	2649	2578.03	41.65	2413	2275.1	80.71
	50	rnd	1494	1430.33	33.69	1854	1776	40.36	1910	1819.07	47.06	1595	1538.33	32.99
51	20	2op	2695	2694.13	2.45	2695	2688.97	6.56	2695	2613.73	42.39	2526	2417.6	56.59
		rnd	1506	1442.1	26.82	1671	1568.87	41.08	1874	1800.33	35.64	1703	1595.63	56.88
	50	2op	2696	2692.17	4.69	2696	2690.9	5.94	2692	2646.4	28.02	2602	2503.63	49.64
	20	rnd	1503	1444.8	33.99	1621	1560.73	31.93	1955	1864.37	46	1688	1578.97	50.88
		2op	2696	2695.07	0.25	2695	2690.3	7.43	2695	2661.93	20.35	2641	2559.37	43.38

Table A.1235: f_{100_512} : transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15604	15361.03	118.29	14872	14619.97	138.68	12498	11753.3	416.88	8534	7764.53	497.13
		2op	16495	16231.73	122.22	15833	15416.4	209.63	13500	12668.53	429.39	11242	10579.63	260.13
	50	rnd	15611	15355.6	155.49	15327	14978.53	173.81	13767	13115.53	359.54	10044	9171.97	463.61
51	20	rnd	16448	16188.33	145.35	15964	15760.43	154.81	14731	13832.17	346.96	11324	10757.2	343.13
		2op	15591	15342.7	141.37	15474	15181.3	141.6	14610	14005.47	222.92	11380	10515.6	433.36
	50	rnd	16744	16459.1	169.35	16582	16293.33	177.59	15514	15020.83	336.51	13011	12309.7	339.08
		2op	15568	15294.53	142.89	15560	15216.9	152.3	15071	14546.57	292.09	12909	12053.8	444.16
	20	rnd	16642	16440.7	125.28	16598	16381.33	128.4	16067	15693.23	230.37	13492	13051.57	324.22
		2op												
	50	rnd												

Table A.1236: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	5541	5458.6	45.13	6943	6515.27	196.13	6369	5888.8	192.32	5609	5027.1	202.03
		2op	17766	17660.13	47.49	17652	17461.13	73.14	17319	16941.87	201.3	15569	14988.8	446.32
	50	rnd	5546	5459.23	45.51	7152	6780.13	158.15	6739	6170.27	290.21	5939	5268.47	318.72
51	20	rnd	17754	17679.87	49.43	17678	17533.4	72.44	17486	17272.6	138.26	16736	15851.57	375.16
		2op	5553	5468.3	42.03	7194	6775.83	187.12	6729	6279.8	221.1	6189	5391.33	365.98
	50	rnd	17746	17677.83	49.43	17699	17557	94.07	17633	17419.93	117.71	17087	16683.07	210.74
	20	rnd	5580	5454.97	54.36	7132	6854.27	159.66	6869	6519.13	213.85	6383	5673.97	520.81
		2op	17766	17706.97	35.12	17691	17580.83	75.69	17650	17512	107.49	17408	16998.97	153.07
	50	rnd												

Table A.1237: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15730	15341.97	140.21	15232	14590.97	228.28	12813	11903.97	488.64	8393	7744.47	347.05
		2op	16521	16221.87	140.48	15825	15401.67	275.78	13282	12614.6	328.22	10926	10465.33	236.89
	50	rnd	15754	15372.63	153.46	15383	14959.3	183.56	13618	13067.9	371.42	9870	9233.47	412.41
51	20	rnd	16477	16165.77	135.25	16081	15714	224.03	14536	13662.83	374.51	11403	10697.83	264.3
		2op	15580	15338.23	108.02	15416	15185.27	117.39	14631	14052.13	273.6	11396	10520.73	451.86
	50	rnd	16624	16432.47	119.46	16495	16272	131.28	15626	14934.8	362.12	13047	12339.57	306.14
		2op	15673	15373.37	142.94	15523	15285.67	140.46	15189	14550.27	238.5	12855	11932.93	476.56
	20	rnd	16648	16453.83	118.37	16592	16374.07	128.57	16020	15664.63	218.08	13861	13111.03	307.29
		2op												
	50	rnd												

Table A.1238: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	5569	5459.8	50.58	6999	6469.77	217.28	6247	5871.63	169.26	5702	5057.97	234.9
		2op	17749	17642.8	67.42	17694	17444	136.77	17246	16899.07	190.37	15643	14856.97	364.58
	50	rnd	5542	5466.77	42.47	7166	6749.23	205.72	6505	6020.77	309.37	5904	5273.43	319.51
51	20	2op	17757	17675.2	53.69	17689	17501.13	119.98	17624	17190.73	199.3	16541	15789.83	385.48
		rnd	5557	5471.83	44.39	7086	6783.67	147.76	6647	6254.63	172.61	6219	5490.07	403.08
	50	2op	17761	17651.87	55.48	17673	17534.03	80.97	17586	17416.57	118.27	17133	16668	232.82
	20	rnd	5540	5446.47	51.06	7131	6837.67	139.44	6953	6444.93	306.19	6325	5525.33	424
		2op	17761	17698.7	39.27	17699	17597.53	63.18	17621	17488.17	81.08	17260	16956.2	156.84

Table A.1239: $f_{508.354}$: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	15635	15297.73	129.21	15617	15227.37	136.32	13175	12353.4	441.71	7945	7230.33	348.5
		2op	16713	16524.83	112.38	16627	16451.63	120.36	14491	13630.17	405.58	11002	10717.33	129.39
	50	rnd	15629	15399.53	144.69	15568	15371.23	140.37	13772	13066.93	460	9240	8659.9	418.36
51	20	2op	16644	16378.07	145.55	16600	16349.17	138.95	14577	13877.23	333.73	10983	10691.07	152.35
		rnd	15639	15341.9	131.05	15639	15336.03	135.07	14775	14411.63	250.48	10413	9454.03	676.28
	50	2op	17208	17002.6	94.73	17208	16998.77	95.33	16401	15975.2	229.03	12919	12223.77	266.29
	20	rnd	15713	15457.73	110.45	15713	15453.67	113.33	15120	14698.93	189.59	11885	10831.6	794.38
		2op	16975	16729.63	109.23	16975	16727.63	108.96	16294	15985.13	232.39	13253	12697.73	314.91

Table A.1240: $f_{508.354}$: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	5608	5516.77	45.7	6158	5978.1	72.97	6020	5752.63	136.65	5089	4944.97	69.67
		2op	17761	17683.63	49.06	17728	17597.77	70.18	17198	16926.4	154.55	15155	14506.97	375.45
	50	rnd	5632	5518.63	46.58	6373	6139.7	82.01	6459	6042.13	142.44	5455	5159.33	97.59
51	20	2op	17766	17715.93	39.6	17753	17658.03	54.28	17412	17233.33	108.56	16087	15632.47	281.4
		rnd	5626	5532.67	42.23	5693	5576.77	56.55	6499	6251.07	145.4	5497	5227.8	134.07
	50	2op	17766	17697.27	53.21	17766	17667.63	61.18	17586	17457.53	76.63	16651	16056.73	243.79
	20	rnd	5598	5513.97	32.97	5734	5662.83	52.68	6577	6325.13	155.52	5512	5259.47	116.35
		2op	17766	17736	24.01	17749	17698.2	32.25	17654	17519.5	75.42	16937	16500.77	262.82

Table A.1241: $f_{508.354}$: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19225	19050.37	132.01	18427	17982.2	274.37	15036	14232.83	574.53	10025	9136.87	355.72
		2op	20408	19989.83	149.75	19189	18852.53	245.91	15817	15129	411.22	13352	12850.9	304.65
	50	rnd	19369	19058.6	167.67	18655	18366.77	184.04	16594	15729.3	491.7	12472	11004.07	621.15
51	20	rnd	20213	19957.8	130.17	19724	19399.8	149.01	17257	16632.57	368.4	13936	13070.1	358.19
		2op	19349	19040.03	158.13	19079	18790.47	171.54	17613	17090.47	345.28	13887	12694.43	506.01
	50	rnd	20600	20272.33	130	20381	19981.2	189.05	18620	18147.9	387.98	15389	14913.27	257.13
	20	rnd	19274	19042.63	124.11	19191	18895.1	142.8	18412	17986.53	229.29	15298	14366.83	542.44
		2op	20525	20234.47	172.42	20430	20105.6	166.4	19401	18947.33	278.19	16716	15668	418.54

Table A.1242: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6802	6710	37.97	8333	7824.63	304.84	7626	7288.23	150.25	6478	6029.97	112.54
		2op	21981	21860.13	73.14	21857	21645.9	132.63	21289	20878.67	288.69	19321	18493.87	464.36
	50	rnd	6822	6712.73	47.03	8540	8162.13	206.11	7628	7314.07	219.98	6373	6164.27	81.18
51	20	rnd	22009	21897.07	70.65	21882	21714.93	92.6	21693	21352.8	147.04	20160	19584.37	437.33
		2op	6795	6713.93	47.05	8513	8160.6	221.06	8150	7645.23	363.18	6439	6327.33	56.34
	50	rnd	22021	21857.87	62.99	21931	21716.9	85.41	21753	21535	130.07	21206	20515.93	332.79
	20	rnd	6827	6716.07	56.59	8782	8283.47	185.01	8308	7776.03	234.15	6512	6374.93	60.86
		2op	22021	21932.67	51.93	21965	21808.43	75.64	21877	21686.77	94.44	21344	20910.77	233.45

Table A.1243: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19325	19012	135.53	18726	17918.2	316.82	15079	14100.5	616.93	9751	9198.77	343.57
		2op	20347	19930.67	174.81	19424	18778.63	284.36	15895	15088.83	447.03	13244	12720.13	286.84
	50	rnd	19483	19076.5	161.7	18720	18461.13	164.33	16726	15808.57	408.08	11669	10866.37	537.93
51	20	rnd	20120	19891.33	148.19	19654	19222.2	211	16977	16264.07	480.69	13603	12981.43	321.08
		2op	19240	18961	127.6	18907	18724.17	119.56	17790	17195.5	331.82	13366	12484.17	446.25
	50	rnd	20575	20282.13	144.04	20342	20034.17	206.37	19087	18176.67	501.38	15566	14868.5	405.49
	20	rnd	19306	19054.73	152.25	19186	18919.7	137.18	18506	17908.9	281.37	15701	14481.53	524.71
		2op	20560	20257.17	112.44	20448	20118.57	122.17	19567	18987.53	366.16	16405	15568.57	420.09

Table A.1244: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6799	6718.57	43.26	8281	7767.63	318.9	7563	7252.87	241.87	6137	6033.67	68.53
		2op	21981	21831.2	82.2	21733	21544.73	111.54	21208	20811.17	256.34	19164	18253.13	449.16
	50	rnd	6800	6709.3	47.78	8583	8071.57	259.96	7765	7321.27	217.65	6342	6159.6	76.04
51	20	2op	21978	21890.57	52.61	21886	21707.2	101.98	21649	21312.57	201.68	19977	19334.83	356.6
		rnd	6825	6716.53	46.55	8489	8187.73	210.49	8043	7612.8	346.19	6496	6334.6	66.4
	50	2op	21983	21875.27	61.35	21925	21754.47	82.11	21867	21551	149.95	21103	20378.5	313.79
	20	rnd	6816	6711.93	45.42	8504	8295.03	131.35	8234	7796.63	264.26	6511	6382.03	62
		2op	21982	21912.53	58.95	21975	21769.83	109.29	21873	21663.73	115.18	21295	20902.5	249.72

Table A.1245: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	19287	18994.33	159.67	19192	18900.3	157.52	16093	15095.53	533.39	9329	8744.7	298.84
		2op	20610	20344.03	164.25	20526	20246.67	162.91	16800	16095.03	481.17	13288	13003.6	157.79
	50	rnd	19289	19052.03	133.05	19190	18981.23	153.35	16294	15459.6	686.99	11213	10427.73	492.95
51	20	2op	20335	20111.73	118.71	20286	20050.17	124.99	17675	16622.4	525.96	13209	12986.17	141.07
		rnd	19343	19054.63	121.07	19343	19054.63	121.07	18159	17668.4	402.61	12353	11173.17	725.61
	50	2op	21068	20876.7	102.55	21068	20873.5	103	20163	19403.1	452.07	15204	14750.57	256.78
	20	rnd	19348	19058.5	122.69	19348	19058.4	122.79	18466	18014.4	315.08	14070	12827.37	1016.38
		2op	20839	20583.67	137.94	20839	20581.2	137.97	19953	19462.93	238.37	16184	15339.73	424.35

Table A.1246: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	6859	6765.27	34.56	7527	7198.7	119.84	7110	6928.8	102.08	6218	6048.97	82.97
		2op	21995	21890.83	57.48	21946	21792.93	68.49	21294	20853.87	243.74	18797	17865.9	459.97
	50	rnd	6893	6775.27	41.97	7614	7391.77	90.67	7695	7316.9	143.7	6471	6226.7	109.96
51	20	2op	22021	21943.13	59.65	21983	21855.23	68.68	21575	21277.97	233.81	19837	19133.43	329.47
		rnd	6876	6778.8	49.03	6898	6803.1	55.26	7918	7500.7	161.73	6665	6383.97	132.07
	50	2op	21998	21923.37	48.28	21994	21891.47	64.43	21761	21570.73	139.28	20296	19446.73	296.23
	20	rnd	6821	6765.53	33.81	7102	6873.7	77.31	7929	7653.47	180.94	6899	6468.63	167.94
		2op	22021	21969.93	31.46	21982	21911	46.35	21893	21730	79.16	20860	20126.77	503.18

Table A.1247: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21621	21271.03	139.37	20414	19785.43	314.37	16387	15338.03	588.45	11229	10278.73	491.34
		2op	22390	22129.3	153.13	21139	20483.7	462.28	17261	16356.8	449.03	14484	13985.7	239.86
	50	rnd	21706	21343.17	147.31	21028	20488.6	272.63	18420	17254.9	540.44	13030	11884.27	466.99
51	20	rnd	22357	22122.23	129.67	21613	21191.53	227.7	18993	18022.23	536.7	15270	14433.77	332.01
		2op	21510	21248.8	129.22	21238	20925.07	210.57	19542	18863.4	338.66	14781	13766.57	599.73
	50	rnd	22673	22354.9	136.98	22372	22037.9	178.32	20609	19967.73	384.39	16958	16220	307.39
	20	rnd	21605	21333.87	130.81	21489	21126.27	148	20456	19812	328.26	16661	15709	490.84
		2op	22606	22413.83	135.12	22531	22238.67	150.1	21451	20870.43	317.49	17799	16959.07	440.17

Table A.1248: f_{737_355} : basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7904	7844.47	34.08	9135	8716	241.64	8658	7804.97	429.63	7239	7065.67	90.97
		2op	24387	24226.27	81.96	24172	23948	144.7	23569	23021.9	293.04	21084	20083.23	495.31
	50	rnd	7959	7853.6	45.35	9476	9077.13	233.02	9032	8561.27	338.03	7361	7236.47	98.49
51	20	rnd	24394	24269	78.9	24300	24015.3	144.34	23864	23526.17	168.07	22439	21681.07	370.61
		2op	8014	7865.83	63.39	9547	9126.5	221.39	8771	8380.2	233.48	7591	7414.53	72.78
	50	rnd	24348	24225.4	68.77	24265	24066.27	90.82	24059	23791.77	164.63	22942	22554.1	242.9
	20	rnd	7934	7852.5	49.49	9732	9262.73	197.15	9346	8565.5	370.68	7567	7473.4	47.3
		2op	24421	24302	69.39	24303	24140.23	95.24	24229	23992.33	124.66	23442	23048.4	239.57

Table A.1249: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21474	21223.23	131.17	20407	19818.17	336.72	16704	15509	500.82	10855	10148.17	427.54
		2op	22303	22082.47	155.78	21065	20511.4	350.82	16979	16354.9	391.95	14293	13892.37	212.1
	50	rnd	21739	21412.13	134.05	20903	20516.7	196.56	18135	17136.17	493.11	13038	11884.57	496.11
51	20	rnd	22435	22123.9	127.1	21618	21269.13	250.64	18614	17680.23	546.46	14758	14212.5	321.94
		2op	21492	21211.57	155.4	21334	20919.37	191.73	19457	18936.03	376.96	14916	13695.47	663.42
	50	rnd	22725	22360.67	156.84	22323	22010.5	188.39	20637	19783.17	451.63	16845	16170.87	380.27
	20	rnd	21484	21325.9	118.51	21339	21100.63	109.45	20345	19712.63	384.61	17037	15611.43	637.05
		2op	22662	22422.53	141.44	22518	22246	166.7	21693	21038.53	284.17	18025	16933.3	463.29

Table A.1250: f_{737_355} : basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7926	7846.5	41.6	9188	8785.53	239.03	8601	7728.43	408.67	7223	7105.1	81.96
		2op	24364	24203.27	79.76	24205	23875.9	161.32	23695	22948.57	318.66	20979	20146.87	469.42
	50	rnd	7954	7864.7	49.98	9431	9044.03	217.77	8844	8353.73	478.09	7411	7237.03	89.5
51	20	rnd	24334	24240.8	83.84	24198	23997.43	142.13	23793	23401.2	205.07	22276	21320.83	436.29
		2op	7982	7864.9	60.28	9586	9129.03	232.9	8824	8440.07	235.08	7560	7419.6	79
	50	rnd	24363	24220.33	99.72	24268	24027.47	116.45	24155	23794.27	155.22	22978	22490.2	337.51
	20	rnd	7960	7836.4	61.68	9711	9312.53	205.78	9230	8563.53	330.42	7598	7471.37	66.31
		2op	24418	24300.5	63.22	24356	24162.17	94.39	24216	23987.37	181.39	23654	23052.8	294.52

Table A.1251: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21405	21168.43	135.11	21314	21079.63	155.09	17359	16453.4	573.21	10351	9561.87	408.94
		2op	22811	22460.4	169.61	22689	22334.67	187.35	18926	17700.3	546.47	14917	14226.8	225.8
	50	rnd	21563	21275.17	140.69	21538	21198.1	161.95	18244	17319.1	569.64	12513	11473.13	406.78
51	20	rnd	22505	22309.57	112.31	22433	22223.2	105.77	19303	18104.6	708	14671	14247.47	202.84
		2op	21425	21129.87	135.87	21425	21129.87	135.87	20118	19500.1	336.73	13589	12322.97	811.73
	50	rnd	23050	22859.43	106.73	23050	22859.43	106.73	21548	21035.73	383.2	16879	15959.03	334.88
	20	rnd	21517	21229.03	159.69	21517	21229.03	159.69	20555	19900.4	298.08	15873	13693.47	1255.91
		2op	22832	22633.2	127.88	22832	22633.2	127.88	21725	21312.83	252.32	17122	16744.57	237.99

Table A.1252: f_{737_355} : basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	7985	7909	37.13	8418	8218.6	100.71	8061	7735.33	152.31	7087	6973.4	72.1
		2op	24350	24234.4	76.52	24331	24123.17	98.76	23350	23033.7	221.59	20536	19680.57	388.42
	50	rnd	8005	7919	44.95	8720	8419.47	99.29	8321	8012.93	192.73	7299	7177.67	53.89
51	20	rnd	24401	24315.23	63.66	24367	24208.67	80.4	23917	23514.87	225.44	21647	21015.93	293.96
		2op	8017	7922.7	40.49	8024	7921.3	44.32	8509	8127.9	186.43	7392	7302.17	34.92
	50	rnd	24422	24297.03	64.45	24400	24264.8	73.76	24243	23868.6	164.93	22406	21239.4	398.15
	20	rnd	7993	7898.63	35.79	8161	7974.47	71.14	8725	8307.9	243.93	7468	7341.1	71.46
		2op	24425	24339.47	43.89	24368	24254.6	56.92	24208	23991.03	117.49	22892	22223.2	605.65

Table A.1253: f_{737_355} : transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	40398	39788.93	175.1	37286	36355.03	622.02	27791	26132.3	975.49	18345	17443.53	504.26
		2op	42205	41669.7	229.33	39279	37777.57	873.88	31081	29515.37	680.06	27653	26770.67	393.2
	50	rnd	40943	40571.6	168.75	38875	38019.93	535.64	31771	29913.63	1195.69	21821	20129.43	740.22
51	20	rnd	42875	42377.77	236.56	40521	39881.47	334.11	33188	31708.9	971.09	28118	27089.57	459.19
		2op	40256	39869	199.31	40186	39553.4	296.84	35274	33714.17	957.19	24542	22901.3	994.42
	50	rnd	42647	42213.8	211.94	42491	41738.87	356.07	37112	35647.37	939.36	30826	29778.77	470.61
	20	rnd	40783	40495.13	193.53	40544	40093.47	246.59	37612	36446.43	664.21	28919	26707.77	1122.24
		2op	43225	42837.43	200.44	42954	42344.03	381.4	39297	38400.3	694.93	31809	30938.5	419.83

Table A.1254: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14411	14306.63	64.81	16319	15051.93	321.53	13835	13692.5	90.24	13054	12864.4	121.05
		2op	47065	46782.43	155.72	46857	46329.13	244.23	45195	44484.23	530.99	40673	38904.93	985.15
	50	rnd	14419	14285.2	68.36	16668	16064.03	316.25	14006	13822.93	90.97	13392	13119.23	138.93
51	20	rnd	47138	46976.13	106.24	46880	46593.57	163.62	46329	45679.83	364.14	42881	41781.33	738.66
		2op	14534	14317.53	82.42	17102	16186.73	399.15	16272	14650.8	916.39	13643	13489.27	106.7
	50	rnd	46990	46816.83	103.99	46862	46615.97	174.11	46648	46192.27	273.43	44252	43603.77	441.14
	20	rnd	14413	14273.63	70.67	17074	16445.87	366.94	16673	16163.17	580.1	13755	13533.6	133.51
		2op	47249	47053.6	112.44	47155	46798.97	178.02	46839	46490.33	244.44	45312	44566	474.82

Table A.1255: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	40044	39689.77	197.82	37486	36276.73	861.57	28312	26064.1	1082.8	18461	17159.87	597.61
		2op	42188	41709.6	240.01	38975	37957.97	645.47	31000	29676.3	629.77	27771	26777.5	449.38
	50	rnd	40930	40536.1	222.81	38685	38038.3	519	31903	29662.53	1193.7	21471	20076.3	683.5
51	20	rnd	42770	42273.6	223.73	40527	39644.93	443.41	32821	31589.77	707.08	27750	26803.8	441.95
		2op	40269	39828	243.55	40266	39577.77	263	34979	33488.5	886.99	24555	23179.83	1039.96
	50	rnd	42475	42107.97	220.36	42393	41506.3	462.18	37032	35617.7	790.35	30385	29542.9	485.4
	20	rnd	40954	40539.5	194.68	40757	40165.2	240.29	37340	36102.7	819.71	28603	26763.47	769.74
		2op	43118	42731.67	192.55	42749	42257.23	307.15	39666	38150.67	757.7	31657	30722.9	482.86

Table A.1256: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14477	14316.23	86.57	16349	15101.43	343.23	13884	13688.5	85.49	13202	12864.5	119.09
		2op	47137	46811.2	136.13	46681	46326.23	196.84	45663	44380.73	682.85	40187	38635.27	825.46
	50	rnd	14449	14320.3	72.09	17001	16119.13	453.18	13931	13807.47	69.07	13387	13141.73	138.03
51	20	rnd	47208	46948.73	109.12	46833	46579.2	132.53	46032	45555.2	380.12	42401	41106.5	865.21
		2op	14462	14318.9	72.84	16774	16175.7	385.83	16240	14553.03	921.25	13648	13479.17	100.84
	50	rnd	47112	46824.73	127.03	46912	46600.77	171.94	46566	46076.03	256.27	44422	43396.43	490.8
	20	rnd	14455	14253.23	74.04	17238	16468.17	318.42	16594	16141.53	446.95	13765	13526.87	116.26
		2op	47175	46981.7	116.57	47007	46774.97	158.74	46704	46492.03	171.54	45341	44713.7	474.81

Table A.1257: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	39458	38982.83	195.36	39458	38982.83	195.36	30046	28152.13	1116.03	17719	16646.93	571.97
		2op	42498	42019.33	228.19	42498	42019.33	228.19	33545	32004.47	750.35	27621	26978.9	254.76
	50	rnd	39954	39550.03	189.74	39954	39550.03	189.74	33064	30061.47	1615.68	20542	19466.63	549.69
51	20	rnd	42515	42100.97	184.07	42515	42100.97	184.07	34088	32707.87	894.05	27443	26925.8	220.58
		2op	38729	38425.7	138.14	38729	38425.7	138.14	37210	35688.7	779.51	23494	20052.73	2046.09
	50	rnd	43163	42584.3	283.84	43163	42584.3	283.84	39650	37985.3	914.07	31118	29603.4	498.93
	20	rnd	38995	38573.63	209.58	38995	38573.63	209.58	37974	36891.2	475.7	26487	22339.9	2436.53
		2op	42802	42117.27	288.29	42802	42117.27	288.29	40289	39297.87	711.77	31983	30716.33	506.14

Table A.1258: f_{1343_354} : basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14526	14356.7	71.36	14603	14347.93	102.32	13821	13679.23	62.58	12911	12688.23	95.91
		2op	47026	46851.23	97.99	46978	46724.93	150.4	45375	44604.13	427.9	39350	37695.13	940.88
	50	rnd	14592	14389.43	66.78	15589	15015.03	315.52	13979	13833.47	85.35	13244	13055.03	100.19
51	20	rnd	47253	47053.1	100.26	47093	46884.8	112.28	46167	45405.07	455.16	41955	40505.4	783.29
		2op	14453	14358.8	46.61	14453	14358.8	46.61	14150	14061.7	51.79	13455	13063.47	162.42
	50	rnd	47117	46947.83	91.97	47084	46911.53	99.41	46675	46290.87	193.09	42611	39714.27	1274.44
	20	rnd	14417	14324.8	48.66	14477	14347.13	76.2	14650	14159.73	176.87	13538	13205.23	203.47
		2op	47203	47083.97	74.83	47156	47011.2	86.24	46848	46560.73	172.93	44057	41135.1	1587.83

Table A.1259: f_{1343_354} : transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46474	45927.63	276.23	43288	41997.53	826.25	31102	29334.4	1243.46	21820	19898.3	687.88
		2op	48496	48057.87	239.8	45946	43642	1090.23	36004	33966.1	770.79	31959	31114.97	437.36
	50	rnd	47792	47166.13	208.36	45196	44391.3	448.52	37217	34424.43	1361.61	25136	22998.9	860.75
51	20	rnd	49631	49153.07	152.91	47088	46017.83	734.35	37867	36484.07	837.6	32153	31302.33	374.74
		2op	46351	46025.53	212.79	46351	45894.37	317.07	40684	38885.47	944.37	27955	26203.77	866.73
	50	rnd	49227	48683.07	250.38	49082	48394.03	403.06	42880	40808.77	992.97	35516	34348	501.39
	20	rnd	47504	47117.7	221.9	47187	46799.73	278.02	43502	42079.53	846.92	33187	30492.87	1227.8
		2op	50178	49807.9	201.14	49847	49284.5	342.11	46090	44096.83	761.93	37210	35608.63	732.89

Table A.1260: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17024	16890.73	75.4	19082	18088.93	392.23	16352	16104.57	119.93	15446	15145.83	168.97
		2op	55132	54900.83	136.41	54765	54421.63	172.24	53047	52251.17	498.65	47142	45012.67	1143.84
	50	rnd	17122	16928.93	102.62	19937	19096.13	856.96	16502	16335.2	107.35	15815	15576.67	133.21
51	20	rnd	55386	55147.53	126.95	55051	54736.73	180.84	54096	53573.47	365.84	49779	48770.73	955.25
		2op	17052	16893.73	80.62	19790	18746.07	536.36	16657	16485.47	96.55	16073	15895.83	107.85
	50	rnd	55406	54985.03	176.88	55329	54750.4	213.34	54710	54189.17	327.62	52351	50796.2	708.94
	20	rnd	17035	16846.17	77.53	19741	19100.2	390.74	19415	16979.43	1015.59	16319	16021.1	125.27
		2op	55439	55227.2	108.87	55245	54991.17	128.85	55062	54685.9	193.23	53213	52404.77	498.31

Table A.1261: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46690	45908.57	234.08	42958	41725.37	784.85	31808	29845.93	1179.57	21655	19898.83	809.1
		2op	48548	48054.73	207.58	45356	43507.27	838.67	35191	34082.1	644.75	32005	31004.73	424.24
	50	rnd	47597	47005.77	240.76	45709	44033.57	649.46	35592	33521.77	1089.59	25406	23059.8	838.12
51	20	rnd	49335	48953.9	236.37	46820	45754.1	741.37	38058	36139.07	886.49	31973	31133.13	385.58
		2op	46389	46066.3	199.32	46389	45938.8	306.06	39793	38380.6	943.58	28352	26435.6	814.41
	50	rnd	49580	48683.77	307.76	49383	48356.7	605.81	42387	40585.2	1009.84	35128	34318.77	430.63
	20	rnd	47724	47137.47	226.35	47380	46895.63	233.01	43353	41936.07	722.52	32007	30312.73	1136.41
		2op	50172	49754.27	225.97	50020	49280.77	389.74	45376	43771.73	1047.43	37171	35609.53	656.47

Table A.1262: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17090	16897.57	93.59	19045	18115.03	384.64	16392	16129.47	132.77	15360	15118.37	150.34
		2op	55184	54905.7	173.09	54682	54375.7	203	52987	52089.37	536.7	47075	45372.97	965.28
	50	rnd	17042	16898.87	84.95	19773	18404.4	980.44	16439	16261.53	97.97	15746	15438.63	164.51
51	20	rnd	55275	55018.57	157.05	54945	54594.13	194.11	54113	53352.2	335.52	49378	48326.27	948.43
		2op	17057	16891.77	77.31	19330	18568.27	296.29	16648	16473.73	92.76	16146	15911.4	128.02
	50	rnd	55249	54956.37	165.02	55145	54722.03	177.37	54689	54177.6	332.96	52291	50947.07	498.75
	20	rnd	16968	16830.9	87.71	19968	19026.1	433.97	19368	16883.47	936.37	16168	15949.37	127.75
		2op	55391	55172.47	114.66	55196	54921.83	165.84	54941	54580	209.42	53389	52418.7	459.3

Table A.1263: f_{1577_354} : transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	45162	44734.33	239.56	45162	44734.33	239.56	34835	32286.77	1203.51	20241	19123.33	563.28
		2op	48911	48338.03	251.18	48911	48338.03	251.18	38019	36705.33	1098.27	32374	31487.13	249.27
	50	rnd	45996	45470.13	269.11	45996	45470.13	269.11	37164	34060.3	1848.13	23433	22131.9	413.14
51	20	rnd	49250	48659.7	275.33	49250	48659.7	275.33	39537	37614.97	1441.55	32119	31383.9	259.74
		2op	44234	43832.6	231.9	44234	43832.6	231.9	42554	40577.13	987.51	26635	23464	2275.9
	50	rnd	49626	49067.57	247.16	49626	49067.57	247.16	45354	44014.4	821.42	35992	34447.37	699.91
	20	rnd	44624	44124.93	244.08	44624	44124.93	244.08	43619	42584.4	747.57	30373	25162	3008.72
		2op	48939	48461.07	239.19	48939	48461.07	239.19	46982	45925.23	613.23	37081	35925.4	560.47

Table A.1264: f_{1577_354} : basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17039	16920.83	80.17	17017	16873	82.5	16342	16142.07	109.46	15141	14929.57	155.06
		2op	55209	55007.9	108.09	55088	54864.4	136.61	52797	52119.2	478.44	45428	44303.53	751.13
	50	rnd	17114	16957.4	57.9	18426	17538.1	397.53	16430	16271.4	91.9	15549	15346.67	92.88
51	20	rnd	55433	55120.07	123.36	55200	54942	156.15	53943	53005.6	501.23	49229	47859	719.57
		2op	17074	16945.9	66.89	17074	16945.9	66.89	16733	16557.7	72.96	15649	15357.7	184.44
	50	rnd	55278	55023.07	146.7	55278	54988.6	154.14	54724	54273.57	168.65	49096	45891.07	1526.82
	20	rnd	17012	16866.93	58.61	17127	16869.93	80.55	16752	16564.2	71.65	15879	15392.93	213.68
		2op	55435	55243.67	105.86	55367	55164.97	116.05	55046	54644.6	189.82	51900	47301.5	2050.19

Table A.1265: f_{1577_354} : transRRGA+IM – Suspected Optimal is 57373

Results With Post Optimization and Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47286	47054.33	124.55	47270	47048.3	111.16	47365	47134.63	111.23	47370	47138.7	123.16
		2op	47402	47176.53	96.34	47348	47166.23	100.99	47274	47135.6	89.8	47366	47182.4	99.28
	50	rnd	47238	47043	117.89	47269	47055.97	111.47	47357	47106.9	119.7	47318	47171.6	90.7
51	20	2op	47268	47130.43	92.02	47348	47122.5	88.74	47348	47169.53	98.03	47331	47141.67	103.54
		rnd	47333	47143.93	103.26	47339	47150.37	103.67	47392	47127.13	127.21	47348	47145.57	119.02
	50	2op	47355	47192.7	70.1	47355	47187.97	71.13	47373	47176.6	96.28	47366	47200.17	98.2
	50	rnd	47262	47118.77	97.81	47278	47119.33	113.72	47356	47144.17	126.42	47429	47174.53	84.93
		2op	47304	47149.23	76.46	47304	47147.23	83.68	47377	47176.7	99.92	47372	47186.3	91.09

Table A.1266: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47328	47223.07	62.12	47343	47206.77	61.74	47394	47211.87	80.39	47344	47225.17	77.3
		2op	47431	47310.57	40.8	47381	47297.3	41.17	47371	47293.27	40.83	47401	47272.2	56.79
	50	rnd	47337	47228.8	72.62	47443	47284.9	62.51	47336	47210.63	75.73	47321	47177.3	66.83
51	20	2op	47399	47328.07	32.66	47414	47337.07	38.69	47404	47309.37	50.72	47360	47273.1	68.6
		rnd	47345	47230.7	74.53	47421	47308.03	53	47338	47206.13	72.12	47341	47208.73	87.12
	50	2op	47395	47320.17	34.69	47412	47345.63	30.65	47365	47286.67	42.08	47344	47265.2	43.68
	50	rnd	47322	47245.77	62.29	47442	47333.13	56.8	47386	47245.73	69.47	47359	47243.27	86.58
		2op	47401	47326.03	29.33	47430	47368.3	37.92	47351	47299.53	34.46	47395	47292.5	43.83

Table A.1267: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47270	47088.13	102.88	47284	47078.87	131.36	47400	47174.7	112.62	47400	47167.67	137.31
		2op	47354	47179	91.79	47367	47171.17	106.31	47352	47151.07	115.67	47408	47147.57	116.14
	50	rnd	47354	47059.07	131.45	47271	47086.77	126.83	47325	47093.97	118.49	47311	47158.77	114.08
51	20	2op	47314	47134.5	117.04	47300	47157.63	106.79	47382	47182.53	132	47403	47129.13	128.93
		rnd	47332	47124.53	85.24	47332	47125.33	87.53	47292	47147.83	75.87	47361	47194.37	102.82
	50	2op	47343	47193.2	102.26	47343	47196.9	100.08	47355	47175.13	97.82	47340	47174.47	103.73
	50	rnd	47278	47089.7	112.54	47286	47099.7	111.08	47358	47115.27	124.75	47307	47169.43	112.23
		2op	47380	47193.5	93.11	47363	47188	94.64	47350	47200	102.77	47322	47197.47	72.55

Table A.1268: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47329	47207.83	66.03	47344	47241.63	67.08	47365	47205.9	76.91	47429	47206.93	96.41
		2op	47390	47321.07	33.74	47370	47297.6	43.77	47388	47287.37	50.01	47366	47246.67	91.66
	50	rnd	47397	47227.57	51.81	47416	47268.07	77	47345	47172.8	89.31	47310	47174.8	86.64
51	20	2op	47398	47333.87	34.96	47417	47330.7	40.29	47400	47301.73	43.57	47387	47287.37	66.58
		rnd	47336	47248.33	61.89	47388	47310.8	47.3	47340	47203.67	70.03	47356	47180.4	112.18
	50	2op	47377	47318.7	32.26	47416	47344.4	39.2	47382	47294.13	38.3	47390	47287.77	58.06
	50	rnd	47386	47252.1	59.59	47401	47337.93	43.3	47402	47253.6	67.49	47409	47242	77.51
		2op	47408	47321.53	39.78	47428	47362.47	31.77	47380	47298.67	49.9	47407	47296.47	57.3

Table A.1269: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47303	47102.57	92.53	47310	47101.83	93.92	47291	47129.5	100.9	47362	47173.07	119.7
		2op	47365	47237.03	75.9	47372	47238.57	76.72	47425	47190.77	125.7	47408	47182.23	100.05
	50	rnd	47369	47154.4	118.78	47369	47155.13	117.53	47341	47168.07	90.75	47363	47173.2	155.75
51	20	2op	47430	47263.4	91.64	47430	47262.47	93.06	47330	47178.03	101.47	47322	47140.37	95.67
		rnd	47341	47220.13	53.08	47341	47219.53	53.68	47419	47229.07	92.89	47434	47186.23	106.34
	50	2op	47378	47317.1	35.27	47378	47317.03	35.3	47362	47289.2	50.67	47393	47199.33	104.65
	50	rnd	47355	47254.1	53.59	47355	47250.27	57.53	47367	47186.63	76.51	47364	47195.93	112.25
		2op	47436	47334.97	35.74	47436	47332.67	36.33	47360	47271.67	51.49	47413	47195.23	87.21

Table A.1270: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47320	47218.1	55.34	47330	47200.2	72.29	47354	47209.63	74.77	47362	47197.83	71.68
		2op	47371	47323.93	21.6	47366	47312.77	25.08	47397	47316.87	38.97	47409	47269.13	83.35
	50	rnd	47312	47240.9	47.77	47360	47245.27	57.75	47328	47223.47	65.37	47330	47211.03	88.71
51	20	2op	47407	47339.57	27.47	47409	47328.43	34.23	47408	47316.57	42.18	47352	47271.8	59.14
		rnd	47321	47211.33	57.26	47376	47206.63	75.99	47320	47183.97	72.58	47399	47213.5	87.51
	50	2op	47381	47329.63	24.62	47371	47319.1	25.99	47378	47302.1	34.99	47361	47276	44.03
	50	rnd	47341	47257.03	50.53	47358	47234.77	68.27	47353	47241.8	72.55	47304	47183.93	91.43
		2op	47378	47330.37	20.52	47395	47316.9	26.86	47400	47311.07	40.04	47356	47289.37	39.41

Table A.1271: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151224	150851.67	349.01	151256	150871.73	370.62	151264	150946.87	331.09	151252	150811.13	432.22
		2op	151240	150934.53	318.53	151275	150924.43	330.71	151250	150902.6	298.73	151223	150620.13	535.7
	50	rnd	151218	150922.4	296.01	151249	150891.5	353.49	151251	150861.6	369.51	151235	150843.07	450.01
51	20	rnd	151228	151014.8	266.82	151223	150954.97	304.49	151268	150917.6	274.64	151202	150754.07	432.84
		2op	151244	150960.1	315.25	151249	150870.53	370.68	151220	150815.37	373.81	151262	150896.73	369.35
	50	rnd	151238	150993.2	330.49	151248	151082	237.62	151221	150968.3	308.39	151272	150943.23	330.46
	20	rnd	151254	151058.57	231.68	151295	151063.47	239.84	151228	151000.83	266.7	151246	150975.03	293.5
		2op	151269	151085.43	202.59	151260	151063.57	218.94	151281	151015.27	245.17	151225	150793.27	417.57

Table A.1272: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151322	151152.63	125.35	151271	151147.33	116.02	151231	151050.23	273.23	151229	150989.23	343.73
		2op	151254	151181.93	39.18	151284	151191.77	43.01	151266	151141.17	192.1	151305	150956.13	391.71
	50	rnd	151254	151169.1	51.02	151291	151166.33	60.65	151261	151123.07	150.55	151276	151005.4	280.05
51	20	rnd	151244	151179.67	32.62	151291	151189.2	44.75	151260	151171	119.36	151257	151113.6	185.4
		2op	151279	151120.77	125.61	151216	151149.03	53.11	151291	151130.13	157.29	151256	151116.43	146.89
	50	rnd	151254	151191.1	36.48	151274	151189.7	49.22	151264	151120.4	168.23	151270	151149.6	164.66
	20	rnd	151249	151138.93	45.97	151229	151160.2	48.91	151279	151161.67	53.54	151250	151090.83	181.69
		2op	151251	151194.23	31.81	151294	151193.63	41.61	151250	151173.3	119.69	151265	151065.87	232.43

Table A.1273: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151275	151024.27	242.82	151299	150963.23	287.66	151308	150980.1	451.7	151225	150781.33	434.98
		2op	151275	150982.63	276.55	151223	150942.43	374.85	151254	150845.73	456.7	151265	150685.13	477.39
	50	rnd	151220	150924.4	306.58	151267	150858.43	357.52	151205	150937.6	301.52	151237	150777.43	490.75
51	20	rnd	151243	151047.2	263.22	151258	151028.03	225.68	151239	150856.47	363.87	151246	150684.53	471.42
		2op	151280	151023.7	289.64	151306	151056.63	243.97	151250	150971.3	314.09	151254	150754.47	385.8
	50	rnd	151290	150931.5	328.57	151262	150989.43	281.08	151249	150805.37	433.38	151235	150795.03	408.7
	20	rnd	151233	151026.97	219.88	151237	151032.37	277.03	151263	150934.57	320.68	151221	150907.93	284.12
		2op	151243	150973.97	301.97	151234	150982.43	294.89	151271	150909.93	375.78	151255	150806.67	386.61

Table A.1274: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151288	151139.57	118.36	151282	151144.9	116.59	151257	151142	118.34	151244	150918.73	331.98
		2op	151250	151169.43	103.41	151243	151166.9	96.96	151253	151109.57	207.93	151256	150948.1	347.01
	50	rnd	151272	151151.3	47.2	151237	151156.8	51.07	151261	151107.8	178.21	151263	151073.8	229.03
51	20	2op	151255	151171.37	49.34	151265	151186.63	48.14	151268	151144.9	154.19	151280	151132.53	155.76
		rnd	151262	151142.3	117.27	151293	151157.63	64.83	151261	151088.67	186.34	151259	151103.8	235.81
	50	2op	151241	151186.03	36.72	151305	151193.5	40.06	151305	151175.93	63.34	151258	151089.83	212.87
	20	rnd	151236	151140.43	47.58	151249	151160.63	43.71	151273	151173.67	47.23	151223	151108.13	153.05
		2op	151242	151191.57	34.45	151270	151187	51.68	151269	151200.43	27.15	151267	151130.23	177.59

Table A.1275: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151265	151105.13	188.01	151255	151084.87	207.61	151259	150966.6	271.67	151277	150846.67	402.61
		2op	151268	151037.7	275.85	151271	151013.7	320.97	151245	150909.7	399.24	151268	150825.37	457.76
	50	rnd	151266	151068.93	288.32	151227	150955.9	306.43	151271	150945.63	356.66	151242	150906.67	335.84
51	20	2op	151319	151115.53	173.57	151281	151136.77	117.81	151211	150864.3	436.94	151269	150948.07	334.03
		rnd	151290	151109.23	210.85	151290	151112.23	210.97	151249	151107.43	171.88	151283	150900.9	368.44
	50	2op	151329	151166.27	127.24	151329	151170.07	129.84	151274	151112.9	195.83	151243	150811.93	478.01
	20	rnd	151228	151081.07	207.51	151235	151076.93	207.62	151266	151093.37	218.88	151228	150880.87	427.42
		2op	151257	151117.97	144.13	151257	151120.13	144.59	151277	151058.13	276.4	151299	150967.77	306.59

Table A.1276: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151241	151159.63	44.85	151263	151159.03	49.54	151228	151136.73	109.37	151275	150903.47	357.78
		2op	151283	151193.47	42.06	151259	151198.7	31.36	151271	151176.43	79.45	151260	150985.7	360.2
	50	rnd	151266	151165.7	46.99	151217	151126.1	104.71	151297	151119.27	178.83	151233	151030.27	222.47
51	20	2op	151270	151198.1	36.22	151300	151175	116.33	151285	151189.23	124.09	151271	151126.47	189.17
		rnd	151240	151146.23	49.16	151238	151157.03	45.69	151256	151170.2	57.13	151201	151068.4	325.39
	50	2op	151268	151194.37	37.25	151261	151189.77	46.32	151281	151180.97	41.15	151259	151111.47	164.97
	20	rnd	151299	151167.47	51.98	151259	151159.23	58.32	151222	151151.7	43.52	151295	151142.53	87.21
		2op	151273	151164.87	53.46	151241	151179.03	39.62	151254	151171.57	38.82	151228	151070.97	227.91

Table A.1277: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167083	166465.67	294.78	166879	166502.87	277.57	166850	166354.6	396.63	166799	166143.5	417
		2op	166892	166462.57	304.13	166863	166359.8	392.94	166816	166370	390.31	166898	166371.73	469.19
	50	rnd	166980	166376	300.81	166903	166410.9	325.13	166910	166418.9	368.54	166945	166305.9	415.7
51	20	rnd	167036	166503.97	283.09	167068	166421.77	365.9	166946	166362.47	325.5	166964	166348.97	406.69
		2op	167096	166520.43	344.98	166930	166509.13	287.68	166984	166468.97	316.32	167069	166512.07	326.66
	50	rnd	166838	166539	195.09	166866	166492.3	288.63	166932	166501.13	315.85	166843	166366.27	350.76
	20	rnd	166921	166497.47	320.52	166768	166518.6	227.41	166911	166487.7	299.93	166944	166476.47	297.36
		2op	166846	166519.7	282.64	166784	166494.03	280.45	166738	166486.07	250.65	166811	166309.33	378.74

Table A.1278: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167325	166955.17	205.51	167284	166868.83	248.66	167320	166875.37	244.13	167117	166577.07	433.81
		2op	166640	166556.07	52.43	166715	166562.77	59.36	166669	166576.8	40.67	167000	166508	281.29
	50	rnd	167309	166965.7	180.76	167416	167042.27	237.21	167304	166918.57	180.5	167256	166741.23	298.84
51	20	rnd	166616	166542.63	45.48	166659	166572.37	43.29	166668	166582	41.32	166814	166560	130.08
		2op	167332	166960.43	228.42	167331	167031.3	182.67	167335	166817.03	263.63	167216	166758	255.98
	50	rnd	166665	166550.33	70.36	166704	166588.97	55.16	166684	166577.1	45.97	166819	166586	99.1
	20	rnd	167363	166965.77	172.33	167351	167124.5	175.11	167282	166869.1	247.93	167235	166880.3	197.87
		2op	166608	166537.93	50.06	166671	166548.83	86.93	166662	166568.7	44.1	166757	166569.8	109

Table A.1279: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166930	166544.23	300.66	166749	166418.17	297.94	166917	166370.27	364.28	166778	166310.03	356.11
		2op	166828	166280.93	352.73	166887	166370.37	367.67	166918	166299.57	467.24	166860	166413.07	306.53
	50	rnd	166976	166466.13	344.2	166876	166408	317.92	166733	166364.9	342.81	166958	166375.33	416.5
51	20	rnd	166890	166458.9	304.45	166954	166395.53	342.53	166818	166377.9	378.2	166843	166408.47	388.3
		2op	166952	166532.33	267.19	166967	166482.87	267.92	166955	166432	367.66	166974	166413.2	411.51
	50	rnd	167022	166516.03	393.47	166940	166432.53	407.88	166934	166488.27	333.31	166966	166324.5	497.01
	20	rnd	166964	166578.67	336.85	167015	166527.3	314.2	166894	166542.77	217.29	166924	166383.57	358.39
		2op	167029	166526.63	324.02	166960	166489.73	378.31	166860	166483.9	340.14	166950	166432.57	354.15

Table A.1280: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167387	166917.97	218.43	167216	166866.37	202.21	167287	166769.6	211.08	167276	166525.97	357.56
		2op	166642	166557.8	42.97	166709	166538.03	139.33	166745	166535.17	166.74	166899	166553.7	251.94
	50	rnd	167403	166940.03	232.47	167337	166942.97	216.17	167350	166839.47	192.62	167147	166821.87	238.85
51	20	rnd	166722	166549.93	76.03	166669	166572.2	46.72	166824	166587.7	77.52	166790	166550.9	162
		2op	167395	166992.37	185.38	167318	167002.63	203.72	167292	166878.47	208.76	167180	166783.4	254.57
	50	rnd	166624	166537.53	44.89	166720	166590.6	60.5	166668	166539.77	130.61	166657	166575.1	56.69
	20	rnd	167314	166955.27	193.81	167404	167183.33	141.43	167284	166907.6	217.01	167156	166874.6	185.25
		2op	166618	166538.17	48.5	166641	166563.9	37.31	166666	166575.6	38.31	166702	166584.7	60.38

Table A.1281: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166934	166528.37	295.43	166921	166517.4	318.91	166917	166458.4	305.52	167006	166379.2	444.93
		2op	166950	166499.83	288.64	166966	166458.1	286.72	167063	166473.6	381.85	167082	166274.27	384.66
	50	rnd	167029	166545.23	326.64	166862	166544.97	217.39	166929	166428.23	354.96	166897	166213.93	539.31
51	20	rnd	166976	166534.1	321.34	167019	166519.67	307.84	167086	166538.83	290.37	167140	166319.97	395.31
		2op	167068	166723.37	199.72	167124	166727.47	199.16	167149	166739.63	193.94	167007	166447.03	325.81
	50	rnd	166990	166576.83	208.42	166990	166574.7	208.97	166972	166588.5	271.99	166896	166337.43	440.77
	20	rnd	167016	166713.73	187.05	167016	166715.1	187.35	166922	166696.03	179.51	166986	166464.57	359.15
		2op	167142	166566.1	296.95	167142	166566.1	296.95	166897	166485.67	269.83	166995	166410.1	365.95

Table A.1282: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167318	167006.8	203.65	167301	166973.4	193.54	167368	166960.43	219.45	167087	166614.93	315.22
		2op	166648	166532	141.56	166808	166543.3	140.23	166657	166569.97	39.25	167062	166407.13	410.91
	50	rnd	167360	167025	183.2	167395	167012.03	227	167321	166876.83	170.75	167161	166750.67	252.7
51	20	rnd	166658	166538.6	53.58	166647	166556.6	50.11	166693	166571.07	57.91	166761	166465.6	253.54
		2op	167330	167008.57	155.69	167315	167003.63	168.02	167234	166925.63	200.5	167112	166738.73	333
	50	rnd	166609	166533.63	45.62	166655	166546.93	49.19	166662	166571.63	45.84	166823	166565.3	188.7
	20	rnd	167373	167032.73	199.07	167413	167011.7	188.78	167363	166940.4	227.5	167245	166900.1	176.61
		2op	166652	166548.23	47	166673	166552.2	50.41	166650	166556.57	59.63	166787	166614.1	66.86

Table A.1283: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163097	162964.47	81.77	163080	162929.63	89.01	163080	162947.83	99.28	163110	162945.3	109.3
		2op	163130	162968.13	85.35	163113	162921.43	85.31	163141	162949.9	101.26	163133	162978.93	77.43
	50	rnd	163171	162939.33	118.26	163114	162934.1	84.08	163093	162943.13	98.45	163097	162940.13	82.21
		2op	163103	162947.17	94.43	163126	162925.4	123.23	163095	162929.63	89.56	163105	162995.33	65.89
51	20	rnd	163106	162983.1	75.81	163120	162955.2	111.5	163086	162917.43	101.17	163178	162981.23	82.8
		2op	163140	162991.2	70.65	163122	162989.2	71.95	163206	162990.3	80.83	163120	162988.7	81.24
	50	rnd	163129	162970.5	111.37	163141	162953.2	108.07	163177	162928.1	105.23	163108	162958.93	74.79
		2op	163132	162961.03	105.24	163105	162981.7	78.32	163105	162968.33	90.09	163164	162967.7	84.77

Table A.1284: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163162	162964	82.69	163168	162983	90.22	163195	162989.53	92.14	163083	162936.97	95.74
		2op	163117	163023.63	54.74	163136	163010.33	75.32	163178	163039.53	68.64	163172	163027.9	85.27
	50	rnd	163191	162980.97	85.15	163085	162956.7	69.52	163112	162984.5	79.44	163163	162973.7	87.88
	2op	163095	163003.4	42.68	163121	163026.3	46.05	163146	163030.67	58.5	163182	163025.4	62.28	
51	20	rnd	163151	162984.43	88.72	163150	163015.8	69.48	163093	162972.6	73.01	163182	162974.53	80.98
		2op	163137	163001.3	79.54	163167	163036.6	57.11	163149	163027.5	73.7	163138	163034.07	51.89
	50	rnd	163078	162971.73	65.78	163073	162981.23	66.59	163126	162949.43	92.28	163120	162980.43	70.72
	2op	163146	163006.1	68.51	163164	163027.27	60.25	163133	163040.83	51.57	163175	163050.9	71.55	

Table A.1285: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163070	162932.63	94.57	163100	162920.9	117.33	163065	162921.27	96.12	163066	162947.23	108.65
		2op	163138	162998.9	78.18	163151	162950.47	93.23	163142	162958.53	112.84	163145	162976.93	133.1
	50	rnd	163067	162925.13	113.67	163068	162937.23	102.08	163139	162947.3	104.35	163062	162941.43	93.02
		2op	163127	162938.6	99.83	163091	162940.23	84.58	163102	162939.3	110.49	163146	162988.63	100.82
51	20	rnd	163120	162971.23	65.97	163085	162952.1	71.66	163092	162950.57	71.54	163082	162944.97	86.75
		2op	163225	162985.3	89.45	163085	162961.2	82.63	163127	162951.3	75.66	163098	162955.3	95.64
	50	rnd	163124	162945.23	109.16	163167	162943.3	86.03	163075	162940.57	108.62	163103	162928.77	96.71
		2op	163131	162954.47	90.21	163104	162964.27	77.87	163089	162947.1	104.33	163148	162989.97	81.3

Table A.1286: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163148	162965.5	68.67	163119	162971.9	75.51	163075	162962.63	65.38	163124	162949.8	101.48
		2op	163163	163016.9	77.27	163168	163026.47	62.64	163207	163061.63	60.34	163129	163019.8	70.04
	50	rnd	163098	162965.7	64.09	163095	162948	70.81	163100	162989.43	75.52	163102	162952.67	87.26
51	20	rnd	163119	163024.8	52.95	163141	163040.1	79.53	163202	163048.7	59.6	163232	163049.07	67.37
		2op	163099	162990.73	76.52	163182	162995.73	73.74	163133	162968.67	70.55	163083	162961.3	66.85
	50	rnd	163102	163001.9	47.18	163164	163017.93	55.92	163159	163040.43	64.44	163124	163031.3	73.59
	20	rnd	163155	162973.47	112.53	163103	162966.57	94.87	163093	162941.97	80.95	163116	162976.83	80.34
		2op	163241	163009.23	72.36	163102	163014.77	47.49	163099	163011.03	52.74	163160	163043.3	58.92

Table A.1287: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163047	162938.13	99.39	163116	162950.73	91.84	163056	162905.17	83.04	163113	162949	98.23
		2op	163140	162944.73	120.5	163171	162961.33	104.71	163084	162953.13	102.93	163186	162966.3	87.24
	50	rnd	163075	162970.9	64.49	163101	162944.57	78.29	163081	162922.63	87.01	163153	162946.1	96.28
51	20	rnd	163063	162943.77	106.16	163129	162974.47	94.51	163038	162928.47	81.35	163115	162972.37	97.82
		2op	163043	162914.07	85.06	163043	162914.07	85.06	163047	162929.43	100.07	163087	162961.73	75.01
	50	rnd	163086	162970.4	80.52	163086	162970.4	80.52	163106	162948.17	113.23	163147	162993.77	86.47
	20	rnd	163150	162967.63	89	163150	162967.63	89	163144	162920.8	93.27	163073	162936.13	97.48
		2op	163067	162965.27	62.64	163067	162965.27	62.64	163148	162976.23	102.44	163033	162924.93	81.67

Table A.1288: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163134	162978.3	80.52	163117	162984.67	79.61	163118	162947.5	78.29	163100	162948.03	96.5
		2op	163174	163013.27	63.03	163123	163018.27	75.73	163157	163015.37	67.41	163144	163029.83	82.93
	50	rnd	163124	162973.1	87.98	163093	162997.8	56.61	163144	162984.17	77.96	163093	162954.13	122.46
51	20	rnd	163067	163003.87	35.58	163152	163005.57	79.3	163143	163051.7	55.29	163148	163020.8	65.77
		2op	163161	162984.13	75.67	163133	162975.77	66.1	163154	162991.3	82.11	163129	162958.97	100.8
	50	rnd	163101	162990.4	60.17	163132	163010.53	61.9	163139	163043.27	67.91	163193	163027.23	74.37
	20	rnd	163118	162985.87	71.3	163108	162977.03	91.15	163143	162997.37	64.08	163177	162980	111.85
		2op	163092	162988.47	59.27	163114	163014.8	54.69	163166	163046.13	58.38	163178	163038.23	65.47

Table A.1289: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179812	179677.5	88.01	179815	179690.97	76.49	179849	179658.83	94.1	179836	179677.07	90.22
		2op	179969	179754.2	93.77	179862	179722.97	91.29	179918	179707.7	92.99	179880	179742.07	76.32
	50	rnd	179878	179699.8	92.46	179860	179671.17	101.55	179839	179651.6	92.1	179837	179680.87	87.49
51	20	rnd	179873	179714.4	84.47	179930	179697.5	94.37	179832	179692.53	83.62	179876	179750.93	77.3
		2op	179922	179737.67	99.98	179841	179684.13	97.48	179856	179686.1	79.61	179811	179663.53	94.53
	50	rnd	179954	179772.03	89.14	179934	179752.37	94.43	179903	179731.83	89.55	179869	179737.83	75.89
	20	rnd	179874	179707.1	86.07	179970	179709.27	120.48	179901	179686.87	90.38	179842	179702.4	67.78
		2op	179870	179740.53	88.32	179929	179751.2	99.76	179960	179727.53	95.38	179903	179713.43	97.52

Table A.1290: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179884	179702.27	91.18	179868	179687.7	90.49	179874	179690.6	98.61	179896	179671.03	104.67
		2op	179933	179850.6	50.37	180018	179860.7	78.3	180063	179879.07	77.71	179956	179819.47	70.7
	50	rnd	179973	179737.87	97.25	179892	179717.17	94.65	179888	179706.53	100.9	179853	179696.53	84.38
51	20	rnd	180005	179824.5	85.25	179955	179859.6	63.44	180018	179879.4	63.2	180040	179856.17	88.8
		2op	179941	179836.1	60.32	180051	179863.7	83.6	180009	179873.87	82.24	179985	179873.07	71.86
	50	rnd	179846	179703.67	74.2	179961	179702.6	121.55	179869	179711.2	73.49	179975	179718.13	96.62
	20	rnd	179975	179811.9	56.24	180056	179830.47	59.01	180037	179871.03	84.91	179989	179863.5	66.76

Table A.1291: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179843	179698.07	83.7	179907	179688.4	91.56	179806	179683.3	78.46	179881	179709.17	101.07
		2op	179878	179738.07	74.14	179825	179685.77	86.44	179912	179718.53	93.07	179938	179736.8	86.15
	50	rnd	179870	179732.7	74.4	179892	179698.73	85	179872	179672.83	76.77	179945	179726.3	86.98
51	20	rnd	179922	179689.87	81.84	179844	179702.07	87.49	179886	179685	108.01	179896	179701.67	98.12
		2op	179927	179724.2	85.27	179900	179686.1	111.9	179888	179681.8	86.82	179861	179678.77	88.14
	50	rnd	179905	179763.77	70.02	179966	179774.57	109.19	179872	179745.3	79.49	179869	179744.83	64.54
	20	rnd	179833	179681.07	92.49	179848	179702.13	84.07	179920	179682.33	85.62	179849	179703	86.91
		2op	179911	179747.23	88.47	179909	179733.3	88.81	179913	179720.77	111.02	179947	179740.43	81.28

Table A.1292: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179865	179702.3	101.36	179891	179704.1	93.85	179937	179719.33	110.77	179887	179667.6	95.94
		2op	180024	179830.2	79.8	180087	179885.1	87.72	180011	179864.87	68.02	180000	179839.43	65.58
	50	rnd	179885	179702.5	87.81	179920	179702.07	87.97	179898	179730.53	86.89	179844	179694.87	92.71
51	20	2op	179934	179824.6	57.59	180067	179843.63	69.43	180017	179874.13	78.43	179939	179814.83	69.52
		rnd	179913	179738.73	87.62	179952	179736.13	95.88	180023	179718.3	113.46	179854	179715.83	74.4
	50	2op	180005	179854.13	74.92	179971	179828.53	77.88	180040	179881.3	82.55	179956	179833.23	77.95
	20	rnd	179949	179706.1	104.97	179836	179674.03	89.98	179931	179711.4	82.88	179932	179719.7	96.71
		2op	179971	179810.2	76.36	179961	179874.63	63.78	179942	179842.07	65.53	180019	179844.33	82.8

Table A.1293: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179816	179685.17	86.78	179882	179677.47	89.57	179828	179680.97	87.26	179878	179703.63	94.44
		2op	179962	179749.1	92.3	179838	179723.67	78.78	179865	179711.67	76.25	179903	179762	65.47
	50	rnd	179901	179693.7	103.67	179958	179710.83	110.59	179872	179666.77	93.77	179872	179682.57	86.67
51	20	2op	179902	179720.57	100.62	179902	179719.6	86.84	179818	179684.93	77.71	179926	179744.47	99.15
		rnd	179879	179695.03	85.52	179879	179695.03	85.52	179858	179678.13	98.57	179817	179649.83	92.32
	50	2op	179890	179737.73	84.87	179890	179737.73	84.87	179874	179692.77	93.2	179896	179751.3	80.45
	20	rnd	179916	179710.17	93.31	179916	179710.17	93.31	179827	179686.13	90.2	179831	179684.53	73.26
		2op	179918	179750.6	98.8	179918	179750.6	98.8	179822	179712.4	67.78	179860	179719.23	85.18

Table A.1294: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179831	179719	80.84	179996	179707.37	90.83	179910	179710.17	85.27	179909	179692.1	102.84
		2op	179975	179843.07	70.52	180015	179861.33	65.14	180027	179851.9	70.08	179991	179805.37	86.63
	50	rnd	179854	179739.67	62.47	179911	179698	123.9	179854	179703.67	89.17	179845	179675.2	92.07
51	20	2op	179909	179813.27	65.83	180010	179840.5	99.1	180030	179896.33	62.84	180043	179829.27	90.23
		rnd	179843	179709.4	89.13	179841	179686.77	81.47	179959	179708.97	82.57	179932	179673.1	107.56
	50	2op	179973	179850.97	56.2	180040	179856.17	71.13	179952	179856.13	56.95	179952	179812.5	83.44
	20	rnd	179845	179687.6	85.28	179908	179723.3	100.13	179952	179712.87	103.4	179879	179677.37	81.12
		2op	179926	179832.53	58.52	180012	179837.9	68.97	180038	179844.6	82.82	179983	179817.4	72.16

Table A.1295: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343090	342627.93	408.14	343033	342475.67	420.42	343029	342219.1	542.46	343153	342338.87	549
		2op	343133	342522.87	451.82	342971	342352.33	471.4	343152	342425.83	438.16	343025	342334.3	505.76
	50	rnd	343130	342584.93	446.18	343122	342432.83	465.93	343087	342292.5	616.8	343026	342200.47	610.16
51	20	2op	343096	342567.7	373.81	343089	342498	366.16	342975	342288.97	537.5	343050	342204.53	534.36
		rnd	343107	342631.63	402.65	343032	342629.67	374.91	343090	342537.87	412.92	343003	342249.67	479.71
	50	2op	343145	342668.4	423.73	343023	342680.67	435.21	343041	342508.63	484.98	342980	342320.03	415.32
	20	rnd	342996	342643.97	288.44	343092	342626.77	384.89	343068	342556.8	450.33	343031	342275.6	442.18
		2op	343093	342654.37	343.32	343135	342656.47	357.58	343114	342576.3	415.3	343121	342371.03	523.79

Table A.1296: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343123	342867.97	134.26	343158	342851.93	215.75	343012	342801.3	189.31	343052	342517.27	460.57
		2op	343165	342954.57	117.47	343124	342885.67	192.85	343106	342846.77	295.53	343185	342564.63	468.73
	50	rnd	343171	342878.6	134.05	343131	342833.07	243.58	343099	342755.8	290.48	343025	342576.5	345.04
51	20	2op	343279	342952.47	122.86	343139	342889.67	167.44	343104	342892.37	159.64	343086	342628	533.51
		rnd	343011	342846	122.13	343203	342882.63	168.5	343022	342814.7	173.26	343099	342778.5	266.89
	50	2op	343162	342942.3	131.98	343080	342869.27	184.23	343150	342861.23	214.67	343128	342792.33	318.03
	20	rnd	343120	342896.7	96.94	343118	342872.3	137.17	343084	342881.3	179.5	343110	342718.73	270.77
		2op	343050	342921.47	87.1	343162	342931.63	88.11	343122	342910.97	137.8	343203	342889.53	209.23

Table A.1297: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343093	342553.3	415.67	343080	342405.1	491.46	342985	342302.83	561.77	343008	342158.1	610.39
		2op	343112	342512.73	431.2	343125	342409.77	465.34	343144	342281.53	531.24	343037	342260.8	511.89
	50	rnd	343091	342580.7	393.26	343051	342451.83	436.88	343085	342308.47	585.54	343037	342208.97	582.34
51	20	2op	343114	342337.23	614.66	343089	342118.1	650.51	342998	342227.6	631.04	343015	342333.9	472.57
		rnd	343064	342596.8	428.76	343168	342543.17	452.8	343105	342464.77	408.02	343046	342478.1	430.59
	50	2op	343187	342539.17	408.45	343091	342519.07	417.67	343052	342199.97	602.84	343024	342251.07	597.38
	20	rnd	343111	342806	235.38	343034	342764.27	252.67	343081	342624.1	361.42	343062	342292.23	682.84
		2op	343137	342590.83	448.48	343156	342534.2	459.37	343075	342603.33	487.84	342918	342201.77	562.17

Table A.1298: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343109	342870	117.2	343163	342799.7	306.37	343051	342797.2	222.24	343066	342582.97	373.52
		2op	343208	342950.7	111.63	343145	342887.7	189.53	343184	342845.8	278.01	342999	342257	492.86
	50	rnd	343100	342903.2	107.83	343049	342828.03	216.63	343173	342807.57	227.55	342946	342418.6	447.09
51	20	rnd	343137	342926.83	93.07	343146	342895.37	150.51	343147	342849.77	257.04	343129	342561.03	402.16
		2op	343049	342871.6	102.32	343156	342873.77	154.27	343126	342819.17	208.04	343150	342775.6	314.09
	50	rnd	343141	342930.07	86.18	343184	342927.6	186.44	343057	342851.63	236.51	343071	342839.97	201.23
	20	rnd	343181	342884.13	133.46	343066	342787.4	276.02	343136	342845.23	256.17	343090	342830.93	245.7
		2op	343126	342931.73	95.05	343115	342943.53	91.93	343055	342940.77	81.74	343110	342843.03	257.78

Table A.1299: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343140	342504.6	458.31	343140	342511.6	464.4	343001	342212.53	518.13	343145	342298.53	538.74
		2op	343057	342570.6	422.83	343057	342575.37	412.64	343104	342311.7	498.53	343012	342468.67	326.18
	50	rnd	342994	342546.4	432.62	342994	342524.03	428.31	343110	342302.27	504.3	342938	342260.37	481.82
51	20	rnd	343130	342581.6	484.41	343130	342560.33	507.48	343088	342351.83	577.89	343126	342105.07	487.57
		2op	343079	342748.17	305.22	343079	342748.17	305.22	343067	342693	302.12	343178	342431.43	493.64
	50	rnd	343165	342583.67	433.7	343165	342583.67	433.7	343178	342585.37	525.59	343121	342310.13	563.82
	20	rnd	343074	342683	321.63	343074	342683	321.63	343087	342526.27	413.22	343068	342423.43	522.24
		2op	343137	342662.1	274	343137	342662.1	274	343130	342649.53	337.42	343084	342358.43	626.07

Table A.1300: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343125	342898.8	104.66	343129	342886.23	152.23	343091	342736.47	298.47	343079	342398.87	443.49
		2op	343170	342967.07	109.58	343125	342907.13	170.26	343098	342773.27	306.65	343126	342501.97	433.12
	50	rnd	343147	342945.97	91.11	343169	342926.93	94.31	343118	342766.63	247.2	343059	342661.03	299.3
51	20	rnd	343054	342910.43	81.28	343092	342912.53	75.77	343144	342844.33	257.87	343127	342626.43	508.51
		2op	343118	342905	141.81	343092	342881.43	154.54	343208	342836.2	264.59	342958	342481.33	364.71
	50	rnd	343136	342904.5	157.37	343163	342904.3	151.28	343143	342935.1	154.94	343220	342531.53	467.01
	20	rnd	343114	342874.8	108.34	343126	342884.17	100.63	343089	342893.83	133.37	343060	342720.73	289.41
		2op	343084	342922.07	89.88	343175	342954.67	73.2	343133	342929.63	91.06	343052	342788.1	296.76

Table A.1301: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226996	225497.37	835.16	226232	225417.97	617.72	226732	225243.57	791.22	226468	225211	738.34
		2op	227135	225989.2	485.67	226913	225759.57	583.87	226911	225806.73	688.68	226877	225900	630.83
	50	rnd	227264	225345.53	793.51	226685	225411.77	681.01	226798	225190.73	780.58	227269	225514.2	941.39
51	20	2op	226837	225865.23	551.66	226855	225869.73	580.39	226894	225909.33	578.67	226841	225719.07	568.83
		rnd	226415	225618.3	500.43	226633	225497.7	739.51	226681	225059.1	878.83	226622	225269.9	790.65
	50	2op	227165	225931.07	679.29	226739	225949.93	592.98	227081	226202.3	453.38	227188	226049.83	595.92
		rnd	226770	225514.73	617.17	227096	225392.13	817.39	226665	225187.33	666.87	226606	225125.97	887.35
		2op	226684	225737.63	482.71	226888	225855	493.83	227015	225876.4	626.92	227053	225926.03	551.35

Table A.1302: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226223	225146.3	706.13	226756	225249.67	895.19	226217	224996.4	643.26	226451	225242.47	790.03
		2op	226596	225835.2	291.01	226609	225958.13	398.2	227127	225956.63	532.28	227009	226006.6	513.55
	50	rnd	226629	224966.53	876.61	226304	225159.87	611.93	226616	225261.5	622.12	227086	225248.2	898.4
51	20	2op	226539	225905.2	327.18	226634	225973.67	355.99	226708	226013.57	384.15	226742	226028.9	528.96
		rnd	226717	225011.93	778.71	226523	225191.5	604.25	226529	225150.3	700.12	226476	225048.53	676.18
	50	2op	226364	225877.17	341.61	226919	226122.77	402.46	226528	226011.73	362.94	226726	226006.07	428.31
		rnd	226542	225019.7	902.9	227430	225435.2	834.72	226510	225319.83	825	226693	225005.33	850.79
		2op	226768	225747.8	438.02	226691	226176.7	284.23	226696	225902.2	425.41	226843	226050.6	512.06

Table A.1303: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226800	225637.37	683.45	226883	225426.57	684.01	226884	225486.57	681.11	226456	225038.6	690.35
		2op	226492	225630.83	599.3	227075	225748.73	765.02	226725	225778.7	622.59	227043	225631.73	781.1
	50	rnd	226436	225362.17	671.57	226792	225280.23	848.65	226874	225221.33	865.92	226134	225097.23	671.09
51	20	2op	226975	225911.87	638.25	226910	225943.23	626.61	227119	225650.57	692.06	226842	225744.3	775.25
		rnd	226995	225515.9	767.23	226910	225464.63	742.02	227383	225321.47	647.89	226387	224877.07	969.09
	50	2op	227071	226026.2	479.36	226862	226003.3	553.7	226933	225763.07	753.9	226774	225855.37	529.53
		rnd	226858	225455.57	728.53	226335	225388.67	572.2	226785	225252.7	838.63	226633	225154.33	873.97
		2op	226808	225824.37	646.2	227117	225753.6	720.9	226613	225796.27	611.85	227168	225722.1	636.37

Table A.1304: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226793	225139.63	1001.81	226537	225078.2	852.16	227010	225286.23	869.92	226654	225032	824.1
		2op	226736	226014.83	315.1	226602	225953.67	306.4	226769	226068.17	438.3	227109	226257.77	499.24
	50	rnd	226635	225297.83	592.26	226531	225231.33	670.52	227570	225494.2	831.67	226312	224948.63	929.61
51	20	rnd	226844	225904.57	398.67	226582	225844.63	397.03	226525	225910.73	403.28	226841	225968.37	499.78
		2op	226733	225230.2	829.31	226558	225145.87	625.6	227135	225109.67	734.67	226609	224999.33	851.49
	50	rnd	226624	225834.5	368.61	226885	225956.2	439.13	226840	225816.1	480.26	226798	225958.57	410.17
	20	rnd	226840	225052.83	919.62	226399	225157.37	848.99	226733	225232.13	824.8	226723	225197.03	752.23
		2op	226319	225836.47	326.37	226704	226270.87	209.91	226607	225909.9	372.62	227008	226051.23	388.31

Table A.1305: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226411	225509.9	611.81	227184	225360.33	701.71	226376	225252.13	637.37	226380	225086.17	767.64
		2op	227235	225962.13	505.38	227235	226049.9	563.9	227127	226020.87	524.48	226774	225928.97	556.06
	50	rnd	226950	225330.77	803.07	226046	225025.4	598.59	226885	225224.7	760.07	226501	225059.43	923.67
51	20	rnd	227259	226154.63	585.08	227211	226171.77	653.13	226816	226060.03	600.5	226808	225897.43	517.42
		2op	227217	225389.1	844.1	226745	225318.77	771.54	226836	225393.53	683.59	226772	225165.97	702.34
	50	rnd	226912	226031.17	372.45	226912	226031.17	372.45	226815	226179	417.04	226705	225995.3	540.33
	20	rnd	226993	225406.03	685.1	226268	225365.33	641.8	226708	225196.6	763.07	226709	225336.23	651.35
		2op	226943	226192.73	449.14	226943	226191.07	446.91	226846	226201.9	472.93	227125	226003.13	658.8

Table A.1306: *bx842596_4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226265	225139.13	907.65	226527	225163.07	818.68	226664	225134.2	705.25	226698	224937.13	928.79
		2op	226619	225928.97	357.14	226611	225975.23	353.53	226660	225980.5	365.49	227074	226213.53	524.39
	50	rnd	226916	225157.43	794.01	226946	225065.6	977.93	226991	225203.4	759.85	226308	225023.83	788.33
51	20	rnd	226297	225848.83	364.68	226824	225941.17	411.03	226852	225899.37	450.4	227030	226089.23	480.7
		2op	226598	225027.33	925.99	226337	225214.07	629.37	226484	225193.8	721.83	226480	225165.97	649.12
	50	rnd	226887	226049.43	346.07	226887	226063.9	354.8	226802	226056.53	384.98	226885	226130.07	408.02
	20	rnd	227229	225087.67	730.38	226317	224829.8	833.71	226318	224949.2	814.2	226531	225310.23	714.46
		2op	226424	225893.7	323.94	226404	225993.13	281.65	226661	225846.37	380.08	226708	226081.07	413.85

Table A.1307: *bx842596_4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441145	438926.53	1276.86	440158	438691.07	1047.55	440394	438436.23	1329.59	440646	438355.07	1545.38
		2op	441209	439345.37	1007.58	442472	439714.53	1204.8	441959	439745.33	1011.13	441959	439730.03	1114.28
	50	rnd	442381	439450.37	1290.37	440344	438574.67	1034.78	440614	438473.77	1252.12	440874	438311.43	1338.47
51	20	2op	440945	439428.23	867.36	441769	439699.83	1010.67	441030	439506.23	804.82	441389	439923.8	851.89
		rnd	440865	438524.87	1238.74	440406	438849.27	1044.33	440790	438350.3	1011.71	440361	438273.67	1262.72
	50	2op	441100	439308.73	1010.08	441211	439556.83	1052.2	441684	439910.43	1054.46	441690	439855.73	1103.38
	20	rnd	440822	438747.67	1114.99	441795	439248.7	1163.72	440309	438738.37	1125.23	440197	438220.8	1002.45
		2op	440555	439133.2	791.92	440452	439173.2	826.63	441440	439562.63	1080.22	440918	439325.87	1028.77

Table A.1308: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440918	438629	1318.13	441469	438664.9	1332.21	442079	438477.23	1231.64	441312	438675.77	1234.51
		2op	438680	438103.27	296.06	438755	438113.97	326.57	439758	438434.37	525.71	440400	439202.17	547
	50	rnd	440961	438194.43	1246.16	440185	438430.83	1093.63	440555	438831.67	1175.19	440145	438339.8	1030.8
51	20	2op	438887	437989.47	322.82	438974	437961.87	385.87	439104	438230.07	500.69	439916	438987.83	678.39
		rnd	440731	438155.2	1211.97	440331	437968.07	1240.61	440297	438560.2	1280.21	440544	438110.77	1305.49
	50	2op	438798	437956.07	408.03	439530	438059.67	556.67	438977	438040.2	521.14	440299	438525.3	610.28
	20	rnd	440419	438128	1275.49	441245	438556.2	1341.44	440917	438656.43	1118.17	441191	438825.5	1259.97
		2op	438507	437945.73	259.72	438841	437965.4	329.89	438652	438032.77	338.17	440058	438444.57	534.51

Table A.1309: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441097	438985.7	1086.28	440595	438590.1	1274.51	440863	438490.27	1225.79	440676	438381.8	1197.4
		2op	442854	439425	1127.08	442548	439635.47	1124.26	441472	439702.87	897.4	441628	439457.6	938.71
	50	rnd	440779	438685.47	1240.31	441734	438654.8	1232	440772	438543.47	1177.38	440469	438434.07	989.61
51	20	2op	440326	439128.07	840.35	441125	439626.27	1089.62	441687	439496.53	1004.24	441051	439643.63	944.57
		rnd	440729	438986.47	1084.19	441130	438775.23	1305.78	441451	438822.17	1403.64	440889	438600.53	1244.5
	50	2op	441183	439198.1	797.34	441224	439388.37	1055.6	442480	439829.3	1085.85	441776	440119.37	892.22
	20	rnd	441958	439020.67	1078.66	441393	439279.3	1106.29	441119	438669.53	1252.27	440396	438418.2	1077.26
		2op	441260	439373.97	916.37	441178	439460.7	893.25	441931	439755.77	948.64	442408	439941.23	1144.41

Table A.1310: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441351	438668.23	1013.9	440984	438451.27	1320.04	440118	437911.5	1366.12	440021	438344.5	1234.66
		2op	438989	438140.57	401.22	439506	438265.67	505.06	439536	438360.3	565.82	440669	439245.47	805.55
	50	rnd	440850	438402.37	1208	441680	438671.1	1321.64	441063	438393.83	1376.42	440051	437912.63	1163.38
51	20	rnd	438962	438141	320.35	438971	438045.83	339.26	439175	438255.77	478.26	439988	439057.23	608.44
		2op	441685	438500.1	1376.79	440565	438375.43	1277.26	440377	438126.37	1154.28	440247	437981.77	1429.8
	50	rnd	439047	437962.73	346.49	439390	438033.1	414.52	439284	438157.9	457.22	440860	438497.2	676.67
	20	rnd	441622	438744.37	1111.44	440908	438393.37	1245.36	441200	438677.77	1105.43	439938	437871.27	1325.81
		2op	438576	437939.57	286.87	438818	438007.5	372.95	439426	438128.37	443.24	439562	438467.07	560.71

Table A.1311: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441453	439012.43	1283.58	441181	439192.07	1288.63	441532	438532.9	1635.93	441010	438329.03	1551.12
		2op	441154	439146.07	834.03	441702	439394.53	831.69	441922	439852.27	1059.08	441609	439799.57	812.91
	50	rnd	441049	438757.53	1158.59	441049	438776.97	1087.1	440169	438402.27	1285.38	440042	438236.13	1041.71
51	20	rnd	440467	439062.6	755.06	440595	439143.13	796.4	441448	439599.43	925.28	441487	439629.9	928.09
		2op	440953	439197.2	927.65	440953	439197.2	927.65	441367	438379.4	1543.8	440312	438623.57	1300.69
	50	rnd	439490	438525.9	604.78	439490	438541.4	595.51	441694	439716.93	1015.49	441702	439839.87	1088.96
	20	rnd	441453	438885.6	1286.99	441453	438885.6	1286.99	441712	439081.93	1128.11	440590	438385.07	1244.08
		2op	440211	438938.4	655.07	440211	438902.97	659.34	440763	439530.27	747.27	441421	439784.27	981.96

Table A.1312: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440597	438306.7	1310.83	440494	438604.3	967.29	441978	438438.13	1135.33	440304	437982.37	1291.64
		2op	439076	438047.73	308.53	439076	438052.53	388.64	439749	438488.93	568.15	441065	439490.03	914.08
	50	rnd	440755	438672.93	1195.54	441008	438401.87	1613.41	441365	438503.73	1436.87	441129	438344.37	1304.22
51	20	rnd	438750	438078.13	347.54	438576	438033.87	295.78	439439	438332.6	441.17	440854	439070.57	841
		2op	440678	438520.93	1154.36	440678	438653.67	1209.19	440925	438557.57	1344.76	440166	438301.8	929.55
	50	rnd	439240	437961.23	353	438664	437925.83	280.34	438974	438036.83	394.13	440599	438809.77	644.89
	20	rnd	440295	438395.97	1224.45	441003	438410.57	1413.13	441429	438650.3	1323.07	440472	438328.1	1180.34
		2op	438806	437967.03	330.47	438989	437974.2	354.98	439439	437977.27	409.36	440334	438821.97	695.86

Table A.1313: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115741	114802.93	434.43	115993	114811.83	506.51	115744	114827.03	664.09	115808	114876.57	555.67
		2op	116171	115546.33	378.9	116149	115499.43	382.84	116158	115205.63	384.04	115995	115377.5	323.25
	50	rnd	115994	115026.07	562.12	115873	115188.57	458.97	116177	114914.37	609.54	115754	114670.17	543.26
51	20	2op	115978	115327.43	322.99	116138	115348.1	453.35	116104	115341.2	411.87	116061	115452.7	318.73
		rnd	115833	114958.93	501.25	115851	114896.1	414.29	115725	114907.03	580.6	115753	114843.43	563.73
	50	2op	116152	115515.07	338.12	116152	115506.27	350.63	115991	115451.37	338.31	116172	115456.2	380.56
	20	rnd	115952	114948.67	541.85	116124	114938.4	570.57	115735	114860.03	496.8	115490	114664.33	445.38
		2op	116098	115582.3	314.86	116124	115538.3	344.51	115928	115469.9	340.69	116138	115313.93	324.71

Table A.1314: $j02459_7$: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115876	114810.13	502.7	115553	114666.33	450.23	116248	114811.33	564.26	115420	114584.37	517.36
		2op	116327	115526	221.98	115888	115459.63	222.07	115888	115451.83	256.81	116312	115563.77	304
	50	rnd	115431	114772.17	426.02	115621	114661.17	423.71	115768	114871.47	532.51	115601	114849.4	560.44
51	20	2op	115935	115464.63	206.74	116042	115550.63	229.59	115933	115411.9	224.4	115905	115401.5	286.01
		rnd	115953	114696.83	655.13	115653	114806.33	595.07	115619	114648.23	488.37	115930	114819.53	502.83
	50	2op	115633	115439.77	125.18	116391	115600.4	273.58	115633	115358.33	157.14	115849	115425.73	183.77
	20	rnd	115690	114774.6	475.75	115402	114728.9	437.08	115654	114830.5	497.95	115717	114705.07	560.4
		2op	115803	115496.53	148.63	116424	115767.87	216.49	115858	115437.33	209.98	115939	115451.23	229.18

Table A.1315: $j02459_7$: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115817	115065.97	514.33	115626	114797.73	527.07	115976	114843.4	494.71	115737	114668.2	426.4
		2op	116173	115421.27	402.07	116178	115352.93	474.66	115948	115329.43	317.85	115803	115324.37	310.74
	50	rnd	115839	115173.83	459.92	115614	114912.83	433.06	115983	114694.33	569.27	115778	114784.53	549.5
51	20	2op	116037	115388.6	354.22	115912	115315.33	429.65	116298	115347.43	441.78	116078	115365.33	351.63
		rnd	116009	115007.27	459.63	115725	114895.03	557.38	115956	115033.4	587.18	115713	114743.93	547.53
	50	2op	116103	115471.8	357.12	116103	115429	365.4	116121	115344.13	443.35	115987	115310.7	402.6
	20	rnd	116139	114960.07	551.69	116308	115073.63	551.94	116026	115037.17	433.96	115847	114729.2	467.54
		2op	116033	115493.97	320.49	116066	115495.77	295.69	115909	115485.3	262.19	116059	115497.87	319.89

Table A.1316: $j02459_7$: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115650	114856.67	517.37	115592	114918.4	501.3	115774	114999.83	392.1	115283	114585.63	557.15
		2op	115793	115484.43	164.22	115710	115383.53	224.47	116050	115369.37	284.68	116269	115420.8	355.79
	50	rnd	115678	114754.07	457.41	115604	114849.77	502.5	115742	114600.03	499.21	115724	114705.97	525.73
51	20	2op	116039	115482.1	218.46	115996	115529.8	226.55	116091	115314.93	298.28	116320	115504.1	318.12
		rnd	115911	114853.5	617.63	115789	114763.07	538.52	115503	114763.7	509.22	116175	114743.03	640.99
	50	2op	115933	115462.63	191.72	116126	115710.73	243.21	115900	115452.73	207.99	115889	115468.73	146.15
	20	rnd	115862	114884.67	534.74	115233	114636.3	490.59	115908	114864.9	572.34	115851	114823.7	513.33
		2op	116025	115428	207.9	116438	115759.1	189.73	116023	115402.67	199.17	115888	115401.13	251.93

Table A.1317: *j02459_7*: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115844	114891.23	507.18	116029	115064.87	523.77	115682	114727.33	433.13	115682	114816.4	533.12
		2op	116239	115582	275.84	116239	115584.7	264.33	116156	115580.13	371.45	116394	115449.33	418
	50	rnd	115434	114776.6	384.15	115661	114869.97	478.05	115645	114961.23	392.1	115617	114781.03	453.88
51	20	2op	116181	115503.73	320.33	116121	115466.5	279.88	116115	115479.7	337.18	116323	115574.43	438.99
		rnd	115836	115034.53	432.45	115836	114975.8	408.29	115990	115012.53	501.07	115913	114669.37	709.08
	50	2op	116111	115453.37	253.39	116111	115447.67	257.91	115935	115426.37	277.18	116255	115541.3	363.02
	20	rnd	115996	115006.17	435.82	115996	115095.73	564.14	116207	115136.37	599.75	116174	114855.43	727.06
		2op	116422	115769.33	311.02	116422	115770.43	308.72	116401	115654.93	292.35	116205	115372.33	365.24

Table A.1318: *j02459_7*: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115900	114858.97	368.14	116164	114863.5	560.47	115381	114658.13	463.67	115460	114632.77	620.94
		2op	116308	115486.67	219.14	115749	115437.7	154.98	115992	115474.27	236.29	116146	115495.6	338.32
	50	rnd	115594	114770.57	422.58	115638	114576.8	579.79	115831	114763.43	480.57	115837	114792.47	608.15
51	20	2op	115696	115466.43	176.31	116004	115472.6	197.33	116101	115499.53	220.27	116077	115438.73	321.08
		rnd	115953	114822.57	515.73	115811	114853.13	556.89	115365	114724.63	473.9	115856	114623.7	539.41
	50	2op	115807	115469.73	181.43	116087	115464.17	213.54	116077	115403.8	222.78	115796	115428.6	244.13
	20	rnd	115716	114664.47	643.39	115698	114815.43	605.18	115592	114641.5	534.9	115604	114842.9	548.75
		2op	116052	115504.73	217.93	116126	115450.5	212.06	115974	115427.67	192.61	116040	115452.97	340.17

Table A.1319: *j02459_7*: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38534	38280.97	159	38522	38256.27	153.44	38593	38210	160.23	38526	38147.33	234.82
		2op	38555	38354.77	131.9	38550	38329.8	142.08	38550	38296.4	153.86	38561	38243.17	183.63
	50	rnd	38578	38297.57	167.63	38618	38260.77	230.09	38548	38232.3	196.14	38534	38166.03	215.66
51	20	rnd	38469	38300.33	112.42	38537	38302.87	149.52	38520	38301.27	173.64	38527	38252	156.58
		2op	38496	38183.53	222.2	38617	38204.2	198.91	38591	38270	204.43	38586	38250.1	226.13
	50	rnd	38545	38366.9	86.11	38545	38359.97	82.07	38561	38375.1	106.81	38566	38364.03	130.81
	20	rnd	38567	38272.83	196.64	38623	38285.43	168.45	38613	38303.53	192.07	38638	38231.23	194.55
		2op	38531	38371.93	63.34	38563	38359.7	77.88	38435	38312	105.74	38545	38374.03	104.86

Table A.1320: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38492	38181.7	174.35	38482	38151.33	220.5	38581	38256.53	240.69	38531	38211.8	225.03
		2op	38414	38360.6	66.96	38432	38409.8	7.39	38557	38367.87	101.68	38542	38381.77	84.13
	50	rnd	38559	38177.03	217.62	38527	38146.4	249.88	38580	38145.57	279.67	38588	38197.73	176.85
51	20	rnd	38409	38379.63	50.95	38442	38422.53	14.49	38535	38406.07	57.01	38557	38418.77	75.13
		2op	38566	38237.77	221.91	38579	38226	225.57	38577	38175.67	258.74	38580	38151.07	275.96
	50	rnd	38414	38369.17	65.12	38442	38423.4	14.53	38532	38409.03	26.4	38550	38374.3	76.76
	20	rnd	38681	38195.47	232.31	38656	38256.27	228.08	38677	38202.77	223.89	38542	38224.7	201.97
		2op	38409	38374.03	55.09	38442	38431.2	14	38529	38411.7	23.8	38520	38392.43	59.49

Table A.1321: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38584	38249.13	199.44	38570	38262.9	191.95	38664	38205.2	221.54	38537	38174.77	228.22
		2op	38592	38296.73	159.67	38592	38305.7	152.78	38524	38273.83	162.27	38529	38222.1	187.76
	50	rnd	38432	38164.63	185.73	38580	38264.8	208.7	38527	38260.43	181.29	38518	38177.9	242.61
51	20	rnd	38538	38342.57	106.19	38526	38326.03	117.81	38457	38292.7	118.59	38542	38273.83	180.25
		2op	38612	38226.03	216.74	38567	38266.13	198.58	38462	38174.57	204.65	38546	38122.67	249.77
	50	rnd	38477	38362.07	80.37	38504	38383.8	57.57	38550	38375.63	92.47	38572	38364.27	130.37
	20	rnd	38567	38258.83	157.95	38546	38243	220.08	38590	38208.23	181.86	38492	38210.7	199.32
		2op	38523	38374.27	97.52	38518	38381.7	76.02	38524	38330.5	110.79	38569	38310.87	154.95

Table A.1322: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38658	38232.1	192.45	38647	38221.33	209.93	38567	38128.33	284.34	38686	38216.17	224.51
		2op	38413	38366.17	67.71	38534	38416.57	25.49	38505	38372.97	77.48	38529	38355.53	92.59
	50	rnd	38485	38125.9	236.6	38649	38198.93	234.3	38563	38228.93	232.99	38619	38200.03	248.5
		2op	38413	38373.47	59.74	38442	38422.07	14.33	38524	38392.8	54.3	38530	38387.1	81.26
51	20	rnd	38506	38181.87	241.99	38606	38193.7	227.19	38567	38175.6	222.14	38486	38199.9	182.12
		2op	38436	38368.4	67.02	38442	38419.33	13.28	38432	38406.87	12.62	38552	38385.87	101.53
	50	rnd	38657	38170.27	250.78	38601	38188.2	218.95	38539	38183	231.85	38633	38182	226.91
		2op	38414	38367.3	65.2	38442	38429.33	13.1	38442	38412.3	14.13	38530	38376.77	70.66

Table A.1323: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38642	38288.7	197.11	38575	38280.47	186.83	38663	38206.67	240.09	38655	38185.2	221.33
		2op	38431	38391.6	30.87	38430	38387.5	29.92	38580	38376.6	115.48	38602	38274.63	185.13
	50	rnd	38629	38275.93	181.16	38612	38306.03	196.56	38626	38201.47	211.23	38626	38210.33	195.38
		2op	38437	38384.53	50.31	38437	38381.1	53.57	38579	38334.63	126.6	38567	38258.9	138.65
51	20	rnd	38573	38232.2	172.52	38508	38232.8	196.44	38652	38240.07	190.26	38573	38214.4	188.94
		2op	38437	38415.17	14.12	38442	38433.6	8.48	38524	38399.67	37.22	38568	38359.3	153.11
	50	rnd	38555	38265.07	192.25	38639	38242.57	210.66	38515	38185.77	214.42	38491	38106.53	239.65
		2op	38442	38424.2	14.5	38442	38428.7	11.82	38438	38385.83	41.6	38517	38292.93	131.15

Table A.1324: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38650	38217.73	214.76	38527	38198.97	239.34	38634	38120	245.46	38612	38185.97	238.01
		2op	38409	38402.53	8.87	38418	38402.8	9.69	38507	38407.87	26.21	38566	38384.33	114.33
	50	rnd	38615	38230.7	214.57	38527	38192.7	229.25	38535	38181.13	200.91	38571	38214.37	238.86
		2op	38409	38404.77	7.61	38409	38403.7	8.57	38530	38396.33	55.01	38556	38362	102.68
51	20	rnd	38569	38176.37	201.59	38522	38169.8	223.64	38636	38202.5	271.77	38553	38152.83	229.71
		2op	38437	38407.93	9.59	38437	38409.07	7.51	38432	38392.4	21.8	38550	38381.17	88.08
	50	rnd	38528	38158.7	234.41	38513	38258.53	202.08	38566	38171.5	241.5	38687	38171.97	260.43
		2op	38432	38408.87	4.76	38442	38406.53	8.46	38431	38392.53	34.15	38533	38403.9	78.08

Table A.1325: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47921	47585.67	234.12	47846	47537.33	229.16	47961	47547.23	337.94	47899	47546.2	261.82
		2op	47814	47582.83	151.17	47830	47574.4	169.87	47756	47569.7	153.03	47830	47563.27	205.43
	50	rnd	48034	47613.93	270.9	47894	47522.63	265.52	47917	47464	316.18	47862	47600.7	190.43
51	20	rnd	47870	47556.03	230.7	47843	47543.93	289	47905	47584.07	210.88	48023	47503.47	271.02
		2op	47801	47630.57	175.38	47801	47634.9	175.16	47801	47634.37	173.42	47810	47599.23	184.75
	50	rnd	47887	47594.67	177.54	47897	47577.47	208.21	47998	47554.73	238.16	47849	47528.27	252.6
		2op	47821	47602	190.86	47821	47628.1	183.64	47830	47618.67	170.02	47819	47617.1	167.99

Table A.1326: *m15421_6*: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47851	47569.53	209.95	47923	47473.93	264.22	47899	47562.3	283.96	47846	47431.87	287.17
		2op	47758	47470.9	175.72	47758	47745.9	9.2	47951	47513.63	188.38	47956	47588.9	162.51
	50	rnd	47824	47493.63	260.9	47949	47428.83	371.53	47851	47514.47	212.22	47939	47515.83	257.85
51	20	rnd	47758	47493.43	165.7	47758	47754.93	6.24	47755	47472.43	157.26	47803	47519.5	187.14
		2op	47772	47433.13	290.55	47913	47538.5	216.69	47820	47494.27	309.7	47939	47512.67	305.14
	50	rnd	47758	47495	160.37	47758	47756.57	3.37	47758	47567.3	185.22	47758	47500.37	164.4
		2op	47848	47434.7	265.21	47919	47450.87	342.01	47838	47518.43	216.44	47833	47475.07	251.89
		2op	47758	47442.27	123.79	47758	47756.9	1.47	47758	47713.53	101.29	47750	47440.4	138.54

Table A.1327: *m15421_6*: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48021	47635.27	187.35	47909	47630.5	225.44	47862	47579.8	254.74	47943	47560.4	313.84
		2op	47814	47637.4	154.5	47814	47613.43	157.12	47803	47594.07	200.21	47803	47570.77	186.74
	50	rnd	47888	47541.43	251.35	47961	47605.63	234.32	48002	47575.93	260.72	48027	47545.97	262.63
51	20	rnd	47814	47579.8	198.16	47821	47538.1	226.98	47830	47643.67	123.66	47830	47661.83	107.98
		2op	47933	47532.87	245.91	47868	47544.37	200.38	47923	47611.33	235.31	47866	47553.37	174.66
	50	rnd	47814	47601.97	191.54	47803	47593.17	184.29	47758	47600.83	139.83	47805	47592.83	181.43
		2op	48043	47636.7	237.48	47897	47492.93	289.89	47915	47557.1	227.61	47972	47509.57	274.39
		2op	47758	47618.47	136.05	47758	47585.4	139.41	47794	47632.67	141.46	47814	47606.47	172.19

Table A.1328: *m15421_6*: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47919	47514.43	268.33	47982	47536.1	269.66	47864	47477.83	251.91	47925	47482.5	256.88
		2op	47758	47506.07	161.06	47758	47719.5	105.66	47758	47491.7	147.21	47960	47562.9	200.64
	50	rnd	47790	47444.2	299.97	47923	47503.43	239.68	47914	47470.27	340.86	47916	47568.33	236.33
51	20	rnd	47758	47469.43	165.82	47758	47754.03	6.39	47793	47502.7	184.72	47776	47496.9	174.77
		2op	47830	47536.7	255.82	47916	47485.07	299.76	47909	47563.83	270.74	47839	47510.6	228.83
	50	rnd	47758	47456	141.25	47758	47756.67	3.08	47830	47556.03	185.28	47758	47489.23	157.95
	20	rnd	47848	47459.07	235.74	47837	47407.9	327.14	47986	47562.3	298.49	47916	47524.33	246.58
		2op	47758	47503.43	173.79	47758	47757.2	1.35	47758	47735.37	61.99	47758	47491.27	135.04

Table A.1329: *m15421_6*: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47961	47599.67	223.12	47949	47573.7	212.01	47967	47606.47	197.48	48027	47525.53	293.73
		2op	47814	47660.6	142.85	47814	47660.63	143.04	47805	47629	135.89	47821	47630.17	186.14
	50	rnd	47904	47626.4	206.68	47924	47572.87	218.92	47933	47567.07	217.95	47836	47558.2	261.46
51	20	rnd	47830	47703.53	102.43	47830	47698.9	102.06	47830	47633.37	132.59	47814	47573.5	180.85
		2op	47848	47490.57	282.97	48052	47620.5	227.66	47952	47521.4	377.02	48043	47548.93	314.69
	50	rnd	47758	47711	101.9	47758	47753.8	6.3	47830	47621.8	170.33	47803	47640.3	134.22
	20	rnd	47836	47489.2	328.75	47978	47541.77	236.47	47892	47599.67	235.55	47862	47546.23	215.16
		2op	47758	47737.73	62.01	47758	47720.43	111.38	47758	47621.23	189.78	47814	47607.37	181.44

Table A.1330: *m15421_6*: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47821	47473.7	297.8	47898	47489.5	272.75	47906	47566.23	218.64	47910	47539.4	262.32
		2op	47758	47543	167.51	47758	47541.07	166.82	47758	47493.77	168.21	47852	47589.4	144.07
	50	rnd	47840	47527.57	209.96	47886	47521.93	238.67	47944	47451.63	342.38	47943	47457.27	280.78
51	20	rnd	47758	47652.9	146.07	47758	47674.1	133.12	47758	47492.8	139.03	47976	47494.47	181.22
		2op	47844	47534.77	252.42	47833	47468.8	277.22	47914	47565.23	266.4	47848	47578.77	181.18
	50	rnd	47758	47671.67	131.56	47758	47737.7	61.84	47758	47575.47	177.65	47766	47506.73	156.54
	20	rnd	47814	47517.53	203.14	47841	47436.57	258.2	47973	47511.87	294.4	47898	47502.57	241.79
		2op	47758	47634.67	156.98	47830	47738.17	63.07	47758	47466.9	156.08	47758	47502.63	166.58

Table A.1331: *m15421_6*: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54876	54399.93	310.77	54998	54335.17	287.61	54876	54344.57	374.8	54921	54336.9	344.49
		2op	54935	54615.17	156.51	54935	54636.37	148.61	54795	54586.57	147.94	54859	54528.07	184.18
	50	rnd	54947	54343.53	310.46	55024	54416.37	330.3	54985	54380	243.85	55100	54313.33	364.19
51	20	rnd	54945	54562.1	261.15	54929	54551.13	274.47	54882	54648.07	207.17	54911	54648.23	162.68
		2op	54898	54288.13	425.26	54909	54378.37	351.6	54752	54290.43	372.14	54955	54322.97	270.66
	50	rnd	54921	54624.03	128.38	54921	54624.53	128.54	54881	54653.83	126.25	54940	54655	156.35
	20	rnd	54903	54341.83	327.59	55078	54507.67	286.81	54960	54393.73	372.39	54951	54349.9	337.73
		2op	54880	54602.37	120.97	54910	54613.2	125.51	54899	54598.53	141.68	55065	54663.43	174.89

Table A.1332: *m15421.7*: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54750	54213.5	266.11	55042	54361.5	406.41	54729	54358.1	271.44	54880	54300.37	341.91
		2op	54753	54714.57	35.01	54747	54721	26.17	54894	54704	79.86	54940	54711.6	115.45
	50	rnd	54874	54324.53	368.91	54960	54266.5	418.26	54884	54329	412.07	54827	54397.83	274.96
51	20	rnd	54745	54714.57	26.37	54756	54745.23	5.08	54899	54714.4	61.03	54891	54727.87	87.92
		2op	54685	54310.23	315.37	54803	54321.3	327.67	54815	54274.07	283.99	54895	54293.73	318.65
	50	rnd	54745	54715.43	27.8	54766	54748.37	7.16	54805	54708.73	42.4	54947	54684.57	97.04
	20	rnd	54922	54451.17	252	54742	54332.77	292.18	54739	54270.33	356.22	54716	54283.9	274.34
		2op	54753	54732.2	21.45	54754	54750.73	4.91	54959	54727.73	52.08	54959	54733.07	84.37

Table A.1333: *m15421.7*: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55112	54443.47	335.24	55014	54381.13	405.03	55084	54432.3	355.28	55018	54299.83	353.09
		2op	54880	54535.67	217.99	54865	54539.8	192.19	54902	54521.13	238.63	54852	54533.43	181.47
	50	rnd	54837	54331.9	369.22	54866	54304.77	334.66	54902	54405.9	333.46	54912	54335.63	378.13
51	20	rnd	54883	54587.67	189.1	54883	54587.47	174.13	54984	54633.07	246.6	54849	54595.93	157.68
		2op	54853	54428	242.82	54773	54330.43	316.82	54927	54311.13	315.53	54801	54293	354.18
	50	rnd	54915	54607.53	145.86	54915	54604.63	148.34	54922	54612.83	144.83	54894	54627.03	124.37
	20	rnd	54951	54441	296.28	54931	54479.93	342.07	55046	54433.57	295.44	54924	54427.27	352.54
		2op	54919	54631.77	118.72	54931	54638.87	136.26	54927	54606.13	136.32	54932	54675.13	142.79

Table A.1334: *m15421.7*: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54814	54322.9	320.56	54866	54364.2	293.07	54827	54341.97	352.12	54872	54356.33	359.93
		2op	54938	54721.03	52.07	54959	54742.97	70.2	54897	54712.73	75.22	54932	54683.17	130.09
	50	rnd	54802	54304.4	377.65	55008	54384.9	369.44	54757	54177.23	390.15	54788	54203.73	333.19
51	20	rnd	54745	54719.1	21.27	54756	54744.4	8.2	54958	54743.7	79.42	54943	54712.47	107.74
		2op	54832	54320.53	281.71	54783	54275.33	354.57	54615	54243.57	259.54	54853	54379.4	243.98
	50	rnd	54745	54712.03	40.81	54756	54745.67	9.14	54968	54705.63	67.3	54959	54715.43	119.05
	20	rnd	54847	54372.4	334.76	54939	54387.57	329.35	54776	54307.6	328.01	54805	54323.33	325.92
		2op	54745	54723.1	20.45	54762	54750.33	5.03	54959	54723.83	55.81	54958	54720.73	84.33

Table A.1335: $m15421.7$: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54994	54446.3	344.19	54731	54374.83	271.92	54921	54370.57	321.8	54842	54340.5	374.99
		2op	54935	54687.87	98.78	54935	54681.23	108.15	54955	54653.43	150.41	54854	54643.57	176.19
	50	rnd	55135	54415.3	326.01	54882	54310.73	324.64	54866	54278.97	393.39	54899	54383.23	348.37
51	20	rnd	54842	54655.13	94.57	54754	54644.1	91.28	55141	54677.73	148.12	54849	54608.13	155.09
		2op	54909	54377.83	386.89	54977	54336.93	342.75	55037	54452.73	333.2	54942	54183.1	423.38
	50	rnd	54754	54735.93	19.7	54754	54740.33	14.59	54916	54718.73	66.17	54963	54625.37	159.53
	20	rnd	54938	54506.83	279.2	54933	54335.03	414.61	54834	54333.97	318.79	54913	54309.4	397.13
		2op	54754	54742.17	13.13	54754	54741.2	16.24	54744	54666.2	61.79	54910	54666.77	178.94

Table A.1336: $m15421.7$: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54884	54280.63	441.6	54869	54384.7	316.75	54939	54354.97	361.88	54834	54348.53	281.78
		2op	54754	54737.13	16.53	54959	54739.67	46.22	54959	54741.37	97.44	55065	54696.37	153.56
	50	rnd	54881	54403.27	235.41	54982	54432.83	358.75	54832	54270.77	300.29	54945	54355.3	334.98
51	20	rnd	54754	54739.77	13.89	54754	54738.1	13.98	54967	54731.27	74.42	54844	54710.07	85.28
		2op	54633	54314.83	314.02	54632	54184.93	288.41	54772	54340.73	308.73	55031	54326.07	372.7
	50	rnd	54754	54742.13	10.6	54754	54742.03	10.6	54922	54725	46.16	54870	54694.83	82.35
	20	rnd	54778	54368.1	279.54	54826	54280.13	428.56	54858	54321.37	487.16	54856	54220.83	395.98
		2op	54754	54744.3	6.15	54754	54739.27	12.5	54959	54703.77	59.75	54944	54720.23	86.57

Table A.1337: $m15421.7$: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11394	11209.17	127.74	11478	11244.3	123.58	11372	11161.4	172.76	11478	11207.7	116.54
		2op	11285	11083.57	96.37	11394	11260.87	72.41	11346	11129.67	152.64	11346	11166.07	134.97
	50	rnd	11478	11218.8	183.94	11478	11254.37	95.12	11478	11246	139.26	11411	11169.57	158.97
		2op	11346	11115.1	114.29	11373	11276.6	71.13	11346	11177.07	105.36	11305	11141.23	146.02
51	20	rnd	11478	11159.67	156.7	11478	11215.17	146.25	11478	11208.33	118.96	11478	11148.7	179
		2op	11346	11061.17	89.34	11305	11126.3	53.18	11373	11205.63	89.18	11285	11057.83	64.81
	50	rnd	11478	11185.37	143.02	11478	11302.8	113.92	11478	11269.13	143.1	11478	11209.17	157.25
		2op	11153	11079.73	45.75	11411	11201.57	94.54	11394	11277.87	60.17	11153	11064.9	60.69

Table A.1338: $x60189_4$: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11340	11116.9	171.15	11478	11203.93	148.99	11478	11177.77	203.64	11478	11178.23	187.02
		2op	11109	11029.33	36.42	11285	11120.73	44.65	11109	11107.47	8.4	11305	11072.17	82.58
	50	rnd	11291	11111.53	142.9	11478	11182.17	168.78	11478	11188.77	181.01	11411	11179.47	161.68
		2op	11109	11027.67	35.09	11285	11135.43	60.41	11285	11125.63	50.94	11109	11054.67	47.71
51	20	rnd	11340	11075.03	151.01	11478	11162.67	166.24	11478	11183.63	191.15	11411	11164.93	176.98
		2op	11109	11020.6	27.67	11256	11110.83	32.15	11256	11123.7	44.85	11109	11109	0
	50	rnd	11411	11053.6	195.52	11411	11180.7	157.17	11394	11151.33	159.52	11478	11201.9	165.44
		2op	11109	11020.6	30.71	11109	11109	0	11256	11122.17	46.14	11109	11109	0

Table A.1339: $x60189_4$: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11217.5	173.54	11478	11289.4	125.16	11478	11205.27	147.92	11478	11175.8	158.56
		2op	11346	11136.87	124.15	11394	11273.9	67.01	11346	11100.33	133.17	11332	11182.7	117.25
	50	rnd	11478	11197.6	122.5	11478	11241.8	148.21	11373	11219.43	99.22	11478	11213.37	131.19
		2op	11348	11135.37	111.44	11373	11249.83	82.01	11305	11182.87	103.78	11305	11151	131.18
51	20	rnd	11478	11172.53	138.2	11478	11165.97	156.32	11394	11214.2	104.45	11478	11162.43	172.15
		2op	11109	11043.07	41.29	11305	11134.47	66.12	11373	11165.47	89.61	11285	11077	61.22
	50	rnd	11478	11186.97	178.68	11478	11275	146.34	11478	11286.63	135.67	11478	11238.8	167.13
		2op	11305	11085	75.35	11373	11217.37	97.57	11373	11272.5	66.41	11240	11060.73	68.7

Table A.1340: $x60189_4$: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11394	11126.6	152.11	11411	11196.33	144.16	11478	11195.37	178.27	11478	11154.13	175.89
		2op	11109	11014.47	19.14	11285	11124.67	48.01	11305	11115.53	35.78	11151	11051	52.01
	50	rnd	11303	11052.33	191.91	11478	11180.73	172	11411	11140.37	172.54	11411	11211.2	117.81
51	20	rnd	11332	11077.93	190.75	11394	11195.37	147.18	11478	11228.87	139.55	11478	11215.83	140.69
		2op	11095	11021.07	25.81	11109	11109	0	11305	11132.17	60.42	11109	11109	0
	50	rnd	11291	11191.73	101.97	11478	11144.73	169.41	11478	11181.5	139.92	11478	11238.63	151.76
		2op	11095	11013.53	16.89	11109	11105.93	16.8	11256	11128.6	50.82	11109	11109	0

Table A.1341: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11207.13	136.89	11478	11260.37	135.45	11478	11187.1	176.02	11394	11182.2	159.84
		2op	11109	11086	39.61	11394	11275.23	74.15	11305	11080.8	119.19	11305	11160.8	113.71
	50	rnd	11478	11166.7	154.82	11478	11267.17	117.2	11478	11202.57	132.96	11478	11169.17	167.18
51	20	rnd	11256	11083.23	54.56	11394	11232.37	94.15	11305	11095.23	97.44	11305	11139.53	137.62
		2op	11478	11178.37	154.6	11478	11269.33	145.05	11478	11239.53	125.21	11478	11207.2	151.73
	50	rnd	11109	11078.33	44.11	11305	11153.1	81.74	11151	11083	49.76	11346	11123.73	108.12
		2op	11411	11214.07	120.53	11478	11241	148.49	11478	11179.83	153.47	11413	11163.6	162.93
		2op	11213	11094.07	43.51	11305	11140.03	71.05	11305	11050.67	62.77	11346	11108.47	120.62

Table A.1342: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11394	11096.7	193.59	11394	11116.53	188.36	11413	11177.87	168.11	11394	11133.73	171.11
		2op	11109	11043.2	40.87	11109	11097.93	27.86	11151	11035.97	46.25	11478	11125.8	151.02
	50	rnd	11332	11154.37	132.5	11478	11190.93	178.07	11478	11183.1	133.63	11394	11146.7	157.54
51	20	rnd	11109	11052.87	44.8	11109	11107.47	8.4	11305	11079.47	63.43	11305	11073.63	112.67
		2op	11332	11090.2	177.56	11478	11148.63	163.61	11478	11164.13	203.87	11411	11112.6	194.91
	50	rnd	11109	11061.13	45.11	11109	11101.93	23.36	11151	11092.73	35.78	11346	11017.27	69
		2op	11332	11137.43	156.88	11394	11189.87	184.02	11478	11199.8	137.2	11478	11158.07	164.89
		2op	11109	11055.93	45.41	11109	11083.53	40.96	11109	11102.87	23.34	11305	11032.2	60.37

Table A.1343: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14119	13827.37	154.68	14161	13929.93	111.58	14006	13824.63	131.07	14133	13847.53	163
		2op	14038	13885.93	107.44	14133	13996.3	50.11	14038	13840.47	168.33	14038	13839.27	176.56
	50	rnd	14157	13818.33	202.6	14133	13899.6	124.22	14157	13857.5	169.49	14133	13767.93	206.85
51	20	rnd	14119	13817.5	195.03	14137	13850.93	140.58	14139	13872.37	120	14076	13818.57	191.96
		2op	14038	13863.83	83.11	14124	13991.17	42.08	14038	13986.8	29.96	14038	13915.13	100.55
	50	rnd	14071	13800	196.69	14161	13917.47	158.44	14139	13915.67	134.12	14161	13797.3	154.33
		2op	13995	13898.83	83.39	14157	14019.17	51.98	14157	14005.9	44.41	14038	13844.23	121.96

Table A.1344: $x60189_5$: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14039	13770.97	171.96	14157	13856	179.11	14133	13801.7	185.76	14157	13780.1	195.92
		2op	13938	13770.63	61.03	13995	13964.97	30.34	13995	13957.7	44.89	14038	13860.13	132.4
	50	rnd	14091	13820.43	172.24	14099	13863.6	144.68	14139	13868.47	122.34	14079	13827.23	186.88
51	20	rnd	13938	13791.8	64.6	13995	13972.43	20.43	13995	13967.97	22.4	14038	13796.57	103.7
		2op	14100	13812.9	133.98	14089	13746.33	206.78	14161	13851.57	183.56	14137	13831.73	164.8
	50	rnd	13938	13803.1	78.63	14062	13975.37	23.84	13995	13967.63	18.67	13995	13861.7	91.71
		2op	14060	13835.6	162.09	14121	13825.73	158.63	14133	13883.7	166.14	14121	13799.5	160.83
			13827	13752.8	49.41	13995	13956.83	24.05	14157	13986.77	50.62	13995	13869.77	84.33

Table A.1345: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14133	13809.7	180.54	14139	13923.5	143.53	14139	13825.83	181.57	14105	13745.6	187.53
		2op	14038	13894.8	105.27	14157	13991.43	82.72	13995	13827.3	128.52	14119	13874.2	124.57
	50	rnd	14128	13845.6	129.23	14157	13936.5	169.67	14100	13844.7	186.52	14137	13836.5	201.54
51	20	rnd	14038	13941.33	78.52	14157	14015.7	59.12	14119	13863.7	131.29	14124	13836.43	173.54
		2op	14064	13840.43	144.36	14107	13858.53	123.01	14157	13880.77	155.82	14139	13877.27	183.92
	50	rnd	14038	13864.87	92.48	14133	13987.83	40.95	14133	13997.73	36.19	14038	13866.2	123.22
		2op	14139	13855.3	181.78	14161	13936.37	163.69	14161	13958.47	139.53	14137	13768.83	186.91
			14038	13898.97	103.43	14133	13992.47	40.96	14064	13996.2	31.83	14038	13855.03	123.14

Table A.1346: $x60189_5$: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14089	13835.97	159.75	14161	13856.7	172.94	14133	13836.93	155.29	14094	13796.4	135.01
		2op	13938	13774.33	67.58	14064	13965.13	34.14	13995	13945.43	53.55	14001	13841.3	113.28
	50	rnd	14133	13803.7	180.42	14161	13829.57	171.11	14139	13817.83	194.22	14066	13800.07	148.12
51	20	2op	13938	13780.67	66.37	13995	13970.13	25.75	13995	13955.23	31.19	13995	13806.37	103.13
		rnd	14064	13799.87	188	14161	13820.43	182.58	14079	13825.87	158.06	14121	13791.23	195.85
	50	2op	13932	13778.57	58.93	14157	13976.33	40.04	13995	13962.43	29.29	13995	13846.43	82.53
	20	rnd	14067	13826.77	150.24	14094	13777.37	177.08	14161	13855.43	197.82	14103	13858.4	167.89
		2op	13827	13774	53.91	14064	13956.93	51.13	14005	13961.7	28.47	13995	13865.1	86.35

Table A.1347: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14139	13827.17	179.85	14139	13946.47	94.87	14127	13779.83	167.36	14139	13842.1	171.19
		2op	14038	13924.83	74.7	14064	14010.37	32.61	14038	13812.67	141.08	14038	13801.43	138.38
	50	rnd	14161	13823.47	193.1	14139	13908.83	141.21	14038	13770.4	146.87	14064	13800.23	157.74
51	20	2op	14038	13971.53	74.41	14064	13991.87	23.19	14038	13902.53	109.45	14004	13837.27	129.69
		rnd	14103	13862.2	140.16	14161	13882.03	122.8	14139	13855.63	161.24	14127	13814.5	177.43
	50	2op	14038	13913.83	99.82	14064	13980.27	26.38	14038	13890	111.63	13995	13817.93	127.4
	20	rnd	14038	13841.17	113.27	14133	13899.67	134.99	14161	13870.2	161.6	14161	13814.87	157.21
		2op	14038	13971.27	42.96	14018	13976.5	32.57	14038	13884.37	108.3	13963	13755.9	116.82

Table A.1348: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14078	13839.8	165.27	14068	13824.67	184.18	14105	13844.5	160.53	14099	13778.4	189.13
		2op	13938	13825.5	66.14	14038	13924.33	72.21	14001	13785.77	112.4	13995	13755.97	130.56
	50	rnd	14100	13880.73	182.42	14125	13840.87	201.65	14127	13776.27	188.36	14123	13835.73	146.61
51	20	2op	13932	13819.9	38.61	14038	13960.9	37.19	14001	13853	116.75	13954	13736.9	92.59
		rnd	14103	13835.17	178.69	13998	13811.93	135.66	14097	13817.07	183.84	14071	13867.87	145.04
	50	2op	13938	13830.8	52.51	13995	13893.5	57.93	14038	13876.1	106.35	13995	13781.77	102.73
	20	rnd	14133	13876.43	135.81	14038	13802	125.09	14139	13882.8	140.03	14133	13768.97	160.52
		2op	13968	13842.6	40.79	14038	13900.6	66.24	14038	13919.97	82.81	13995	13724.93	78

Table A.1349: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18093	17859.67	166.99	18101	17936.8	143.85	18301	17895.07	211.04	18261	17880.73	193.21
		2op	18074	17976.67	97.01	18042	17990.07	34.52	18119	17904.7	127.63	18136	17940.77	112.8
	50	rnd	18175	17837.77	201.91	18181	17961.2	175.24	18172	17871.83	218.22	18301	17895.5	196.63
51	20	rnd	18017	17995.47	25.65	18142	18014.1	30.6	18142	17955.07	103.75	18142	17912.1	140.19
		2op	18184	17865.43	173.41	18171	17929.03	140.77	18131	17873.73	202.05	18176	17881.67	208.26
	50	rnd	18017	18002.37	22.07	18017	18017	0	18090	17999.87	27.13	18017	17989.97	34.06
	20	rnd	18114	17810.53	188.22	18125	17896.73	180.08	18156	17915.17	145.38	18172	17865.93	184.48
		2op	18017	18003.73	21.18	18017	18017	0	18017	18009.67	12.74	18017	17970.43	48.35

Table A.1350: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18074	17842.47	140.26	18152	17783.27	208.26	18172	17828.63	219.55	18172	17775.6	173.04
		2op	18017	18007.03	11.59	18017	18017	0	18017	18015.47	5.84	18074	18005.23	19.61
	50	rnd	18156	17844.9	124.42	18172	17929.33	181.74	18156	17801.73	232.58	18184	17841.37	175.94
51	20	rnd	18017	18006.27	11.67	18017	18017	0	18017	18017	0	18017	17999.57	20.18
		2op	18184	17837.37	193.04	18129	17780.33	172.57	18129	17832.93	178.13	18171	17860.8	179.6
	50	rnd	18017	18007.03	11.59	18017	18017	0	18017	18017	0	18017	18010.67	12.7
	20	rnd	18184	17900.13	193.83	18091	17823.47	184.19	18175	17871.37	188.06	18172	17882.83	167.63
		2op	18017	18004.73	11.67	18017	18017	0	18017	18017	0	18017	18005.3	13.74

Table A.1351: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18176	17840.53	208.39	18171	17858.57	169.86	18159	17883.8	179.23	18171	17863.13	185.53
		2op	18142	17984.33	91.36	18017	17970.57	44.99	18142	17960.5	85.45	18119	17890	117.4
	50	rnd	18109	17884.63	146.16	18301	17923.93	166.27	18172	17869.2	167.75	18172	17908.8	188.91
51	20	rnd	18142	17993.37	62.11	18064	18007.17	27.88	18119	17961.07	86.39	18176	17927.97	151.63
		2op	18235	17849.8	182.91	18131	17925.17	154.87	18275	17932.57	174.04	18084	17793.9	178.44
	50	rnd	18142	18009.1	31.55	18017	18017	0	18142	18003.37	32.64	18017	17984.7	43.71
	20	rnd	18301	17929.2	160.94	18171	17918.9	149.08	18184	17915.37	154.93	18134	17899.43	121.66
		2op	18017	17992.47	50.85	18017	18017	0	18017	18011.77	13.84	18017	17940.97	82.27

Table A.1352: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18184	17851.53	189.79	18171	17868.83	184.71	18292	17809.7	187.23	18184	17817.83	235.51
		2op	18017	18005.5	11.7	18017	18017	0	18017	18013.17	8.72	18090	17996.17	36.14
	50	rnd	18172	17811.67	194.1	18156	17898.9	159.69	18172	17851.6	181.36	18142	17868.37	176.77
51	20	rnd	18017	18003.97	11.59	18017	18017	0	18017	18017	0	18017	18004.2	12.34
		2op	18175	17848.87	146.01	18086	17850.63	157.35	18301	17874.5	231.84	18109	17830.6	177.33
	50	rnd	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18017	18003.57	16.69
	20	rnd	18142	17843.4	165.66	18142	17796.1	215.55	18156	17873.87	196.26	18301	17832.43	224.63
		2op	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18017	18011.83	10.9

Table A.1353: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17852.13	239.69	18175	17963.2	145.42	18152	17877.5	144.8	18301	17900.93	151.42
		2op	18017	18017	0	18017	18017	0	18074	17981.83	62.76	18142	17971.3	118.3
	50	rnd	18084	17851.57	139.95	18186	17971.27	131.5	18156	17869.5	181.29	18152	17889.67	166.8
51	20	rnd	18017	18015.83	6.39	18017	18014.7	7.02	18025	17963.37	69.17	18142	17954.87	110.06
		2op	18181	17862.47	216.93	18159	17899.5	155.8	18053	17838.83	193.69	18260	17856.6	205.15
	50	rnd	18017	18017	0	18017	18017	0	18017	18010.87	10.34	18119	17991.23	42.34
	20	rnd	18176	17984.53	145.49	18143	17890.3	171.8	18142	17938.8	129.6	18216	17903.23	126.59
		2op	18017	18017	0	18017	18017	0	18017	17992.63	38.95	18074	17954.17	71.06

Table A.1354: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18156	17832.27	196.72	18105	17868.13	176.45	18301	17821.3	246.72	18275	17901.4	192.21
		2op	18017	18017	0	18017	18017	0	18017	18006.93	12.42	18119	17993	53.25
	50	rnd	18109	17880	126.64	18172	17872.23	159.89	18171	17885.03	207.79	18044	17777.53	187.56
51	20	rnd	18017	18016.23	4.2	18017	18017	0	18017	18005.5	11.7	18017	17990.27	33.84
		2op	18175	17892.53	190.12	18158	17876	194.91	18141	17886.13	171.23	18119	17831.87	156.64
	50	rnd	18017	18017	0	18017	18017	0	18017	18012.4	9.36	18017	18002.97	23.19
	20	rnd	18142	17826.27	193.62	18142	17849.27	171.02	18184	17835.2	224.97	18172	17873.53	181.16
		2op	18017	18017	0	18017	18017	0	18017	18015.47	5.84	18017	17993.97	26.17

Table A.1355: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21178	20839.17	201.65	21167	20876.37	178.07	21153	20863.37	246.93	21150	20869.97	195.18
		2op	21154	20839.6	124.01	21193	20902.5	129.89	21153	20873.2	137.93	21192	20963.4	106.83
	50	rnd	21162	20812.47	237.93	21176	20933.93	141.9	21184	20846.13	214.07	21196	20867.57	230.28
		2op	21101	20844.4	132.52	21190	21015.97	92.24	21185	20903.9	136.78	21153	20881.57	157.19
51	20	rnd	21172	20826.4	213.93	21158	20891.5	190.26	21182	20939.97	155.72	21192	20810.37	249.79
		2op	21015	20849.97	64.22	21057	20902.5	83.16	21015	20852.7	61.74	21074	20893.7	92.99
	50	rnd	21206	20809.13	280.19	21186	20909.57	196.91	21206	20910.77	150.09	21172	20870.3	216.24
		2op	21025	20845	47.59	21063	20946.97	84.98	21166	20861.3	88.39	21156	20907.6	118.52

Table A.1356: $x60189_7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21199	20863.17	197.87	21157	20791.73	247.76	21104	20797.03	192.01	21212	20883.13	190.11
		2op	20829	20829	0	20997	20834.6	30.67	20987	20845.6	48.02	21174	20904.6	97.3
	50	rnd	21212	20859.33	199.94	21203	20815.07	213.97	21177	20813.33	259.85	21206	20831	221.23
		2op	20829	20829	0	20829	20829	0	20835	20829	1.2	20987	20850.8	56.81
51	20	rnd	21152	20870.53	181.34	21163	20917.53	193.55	21163	20802.7	262.34	21181	20882.37	178.41
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20987	20859.53	65.18
	50	rnd	21199	20890.8	195.48	21182	20747.3	259.05	21141	20821.43	182.92	21212	20865.4	207.35
		2op	20829	20829	0	20829	20828.8	1.1	20829	20828.8	1.1	20987	20845.1	48.09

Table A.1357: $x60189_7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21175	20831.87	233.29	21135	20907.77	168.9	21166	20807.47	217.94	21233	20848.9	212.81
		2op	21154	20870.9	112.89	21207	20870.8	104.06	21119	20882.7	129.72	21162	20905.47	184.72
	50	rnd	21233	20871.33	227.66	21206	20981.33	142.41	21113	20725.43	230.55	21157	20846	178.94
		2op	21077	20887.97	103.86	21116	20975.17	76.39	21139	20867.7	141.68	21173	20916	204.3
51	20	rnd	21157	20822.73	232.04	21160	20883.4	203.24	21197	20813.57	259.64	21212	20854.97	187.9
		2op	21052	20856.2	67.4	21193	20913.2	94.1	21052	20848.67	61.13	21148	20886.63	92.62
	50	rnd	21122	20860	212.71	21176	20946.97	175.15	21161	20952.57	119.87	21168	20847.63	169.31
		2op	21123	20856.63	95.2	21094	20970.97	84.43	21042	20884.3	82.91	21166	20891.83	108.51

Table A.1358: $x60189_7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21159	20799.33	185.26	21212	20815.6	208.4	21212	20857.57	256.52	21132	20857.67	213.98
		2op	20829	20828.77	1.1	20829	20829	0	20987	20849.9	54.54	21037	20884.3	73.2
	50	rnd	21198	20886.33	180.87	21149	20860.67	204.53	21184	20778.57	214.77	21162	20832.6	183.47
51	20	rnd	20829	20829	0	20829	20829	0	20987	20834.33	28.86	20987	20879.93	70.58
		2op	21152	20896.9	152.23	21186	20843.73	200.29	21172	20737.6	239.79	21160	20873.87	170.82
	50	rnd	20867	20830.27	6.94	20829	20829	0	20829	20829	0	20987	20854.3	54.09
	20	rnd	21182	20870	209.59	21161	20784.97	219.06	21151	20867.3	175.2	21195	20882.77	215.54
		2op	20829	20829	0	20829	20828.8	1.1	20829	20828.8	1.1	20987	20845.2	48.02

Table A.1359: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21215	20858.97	210.35	21260	20946.47	147.93	21169	20869.83	205.33	21246	20852.7	204.59
		2op	21018	20839.23	38.41	21193	20900.8	102.06	21159	20897.4	99.88	21206	20931.47	138.35
	50	rnd	21271	20862.33	160.94	21164	20967.33	138.63	21190	20808.07	181.92	21160	20817.83	187.75
51	20	rnd	21019	20857.93	59.09	21193	20912.97	113.89	21210	20917.47	119.2	21207	20899.67	158.16
		2op	21157	20848.57	201.83	21164	20887.2	187.65	21132	20885.77	214.88	21224	20819	223.81
	50	rnd	20889	20831	10.95	21047	20888.37	73.29	20987	20839.33	43.14	21218	20893.33	91.88
	20	rnd	21145	20848.07	187.4	21166	20860.1	186.52	21211	20873.1	230.4	21178	20849.07	189.47
		2op	21193	20868.4	106.42	21193	20980.57	125.61	21009	20858.63	69.44	21159	20908.33	95.85

Table A.1360: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21207	20899.17	200.27	21165	20797.23	244.8	21160	20790.6	228.93	21130	20761.17	192.23
		2op	20829	20829	0	20829	20828.97	0.18	20987	20846.2	48.13	21152	20902.43	104.28
	50	rnd	21218	20830.13	265.92	21156	20799.3	208.06	21160	20802.07	212.69	21087	20795.5	177.88
51	20	rnd	20829	20829	0	20829	20829	0	20987	20845.43	48.06	20987	20870.9	66.19
		2op	21203	20836.03	221.55	21159	20841.6	224.83	21271	20873.13	233.25	21114	20830.47	199.72
	50	rnd	20829	20829	0	20829	20829	0	20987	20839.83	40.05	20987	20864.37	62.77
	20	rnd	21203	20840.67	176.38	21182	20890.33	209.7	21075	20772.83	207.53	21186	20839.33	215.68
		2op	20829	20829	0	20829	20829	0	20986	20834.97	28.64	20987	20848.6	48.82

Table A.1361: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.2	2.95	596	593.47	1.87	596	592.7	2.2	596	590.03	2.82
		2op	596	592.47	2.54	596	593.9	1.56	596	593.4	2.04	595	590.83	2.44
	50	rnd	596	592.1	2.95	596	594.27	1.36	596	594.6	1.1	595	589.7	3.65
		2op	595	593.07	1.8	596	594.2	1.27	596	594.1	1.6	595	590.63	2.58
51	20	rnd	595	591.03	2.41	596	593.47	1.66	596	594.13	1.46	596	592.83	2.18
		2op	595	593.57	1.48	596	594.53	1.07	596	595.03	0.61	596	594.63	0.72
	50	rnd	596	592.4	2.31	596	594.43	1.19	596	594.5	1.11	596	593.77	1.81
		2op	595	592.87	2.37	596	594.83	1.02	596	595.23	0.63	596	594.27	0.94

Table A.1362: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	589.7	4.21	595	591.6	3.21	596	592.33	2.6	596	590.77	3.06
		2op	594	590.7	2.32	595	594.67	0.96	595	593.97	1.07	594	592.7	2.52
	50	rnd	596	590.73	3.93	596	591.23	2.42	596	592.83	2.31	595	591.47	2.86
		2op	594	590.83	2.25	595	594.9	0.31	595	594.87	0.35	595	593.93	0.69
51	20	rnd	596	590.57	4.51	596	590.23	4.92	596	591.23	3.14	595	590.87	2.8
		2op	594	591.03	2.3	595	594.27	0.94	595	594.67	0.55	595	594.13	0.51
	50	rnd	596	591.4	3.15	596	589.27	5.32	596	590.9	5.02	596	591.57	2.42
		2op	594	591.23	2.31	595	594.4	0.5	595	594.9	0.31	595	594.1	0.48

Table A.1363: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	590.9	3.36	596	593.67	1.77	596	592.73	2.03	595	590.6	2.84
		2op	596	591.73	2.83	596	593.73	1.82	596	593.1	1.77	596	590.87	3.1
	50	rnd	595	591.03	2.83	596	593.9	1.73	596	593.9	1.42	595	591	3.01
		2op	596	592.6	2.09	596	594.33	1.42	596	593.97	1.67	595	590.93	2.95
51	20	rnd	595	590.5	3.31	596	593.27	1.84	596	594.4	1.67	595	592.73	1.72
		2op	595	593.23	1.48	596	594.63	0.67	596	594.83	0.87	596	594.77	0.94
	50	rnd	596	591.63	2.7	596	594.67	0.96	596	594.5	1.25	596	593.2	1.97
		2op	596	593.3	2.28	596	594.9	0.84	596	595.07	0.87	596	593.3	1.76

Table A.1364: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	590.2	5.09	596	591.37	3.93	595	591.37	2.57	596	590.87	3.28
		2op	594	591.4	2.16	595	594.43	1.19	595	594	0.74	595	591.97	2.36
	50	rnd	596	590.7	3.42	596	591.23	3.41	595	591.13	3.26	596	590.6	3.01
51	20	rnd	594	591.4	2.42	596	594.87	0.43	595	594.73	0.45	595	593.8	0.96
		2op	594	591.4	2.42	596	594.87	0.43	595	594.73	0.45	595	593.8	0.96
	50	rnd	595	589.3	5.94	596	589.87	5.32	596	592.53	2.7	595	591.8	2.47
	20	rnd	594	591.07	2.29	595	594.53	0.51	595	594.67	0.48	595	594.03	0.32
		2op	594	591.07	2.29	595	594.53	0.51	595	594.67	0.48	595	594.03	0.32
	50	rnd	596	590.33	5.09	596	590.5	3.17	596	590.93	2.89	595	590.9	3.2
	20	rnd	594	591.13	2.27	595	594.3	0.47	595	594.9	0.31	595	594.17	0.46
		2op	594	591.13	2.27	595	594.3	0.47	595	594.9	0.31	595	594.17	0.46
	50	rnd	596	590.33	5.09	596	590.5	3.17	596	590.93	2.89	595	590.9	3.2
	20	rnd	594	591.13	2.27	595	594.3	0.47	595	594.9	0.31	595	594.17	0.46
		2op	594	591.13	2.27	595	594.3	0.47	595	594.9	0.31	595	594.17	0.46

Table A.1365: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.37	2.61	596	593.97	1.33	595	591.23	2.86	595	589.03	3.42
		2op	596	594.33	0.71	596	595.03	0.61	595	590.87	2.71	595	588.7	3.53
	50	rnd	595	591.77	2.01	595	593.2	1.75	595	590.57	2.93	595	588.7	3.65
51	20	rnd	596	592.6	1.98	596	594.17	1.23	596	592.37	2.04	596	591.77	2.11
		2op	595	594.13	0.35	596	595.03	0.41	595	594.2	0.61	595	591.3	2.68
	50	rnd	596	592.77	1.7	596	593.77	1.55	596	592.07	2.32	595	589.17	3.65
	20	rnd	596	594.67	0.55	596	595	0.37	595	593.13	1.74	595	590.03	2.92
		2op	596	594.67	0.55	596	595	0.37	595	593.13	1.74	595	590.03	2.92
	50	rnd	596	592.77	1.7	596	593.77	1.55	596	592.07	2.32	595	589.17	3.65
	20	rnd	596	594.67	0.55	596	595	0.37	595	593.13	1.74	595	590.03	2.92
		2op	596	594.67	0.55	596	595	0.37	595	593.13	1.74	595	590.03	2.92
	50	rnd	596	592.77	1.7	596	593.77	1.55	596	592.07	2.32	595	589.17	3.65

Table A.1366: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.37	3.49	596	591.07	2.65	596	590.57	3.66	595	589.97	4.09
		2op	594	592.93	1.8	595	593.8	0.76	595	591.17	2.41	595	589.37	3.52
	50	rnd	595	591.57	2.36	595	590.57	3.09	595	590.57	2.98	595	589.27	3.78
51	20	rnd	594	593.1	1.6	595	594.07	0.25	595	593	1.58	594	588.47	3.25
		2op	594	593.1	1.6	595	594.07	0.25	595	593	1.58	594	588.47	3.25
	50	rnd	596	589.67	3.79	595	589.77	3.23	596	591.07	2.68	595	589.77	2.74
	20	rnd	595	593.53	1.2	594	594	0	595	593.97	0.41	595	589.9	2.23
		2op	595	593.53	1.2	594	594	0	595	593.97	0.41	595	589.9	2.23
	50	rnd	596	589.83	5.07	596	590.97	3.15	596	591.3	2.9	595	588.7	3.88
	20	rnd	594	593.37	1.38	594	594	0	595	594.07	0.25	595	589.7	2.37
		2op	594	593.37	1.38	594	594	0	595	594.07	0.25	595	589.7	2.37
	50	rnd	596	589.83	5.07	596	590.97	3.15	596	591.3	2.9	595	588.7	3.88

Table A.1367: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	770.53	5.83	777	774.13	2.26	777	773.63	2.51	776	770.8	5.59
		2op	775	768.87	3.15	777	774.43	2.06	777	773.13	1.81	775	769.27	3.59
	50	rnd	777	772.03	5.08	777	775.33	1.47	777	775	1.86	777	770.77	3.28
51	20	rnd	777	770.27	4.92	777	775.37	1.43	777	774.43	1.77	777	771.9	3
		2op	775	770.87	5.27	776	773.2	2.48	777	773.93	1.96	777	772.4	2.54
	50	rnd	775	769	2.32	777	773.1	1.65	775	773.17	1.15	774	771.77	1.48
	20	rnd	777	771.97	4.59	777	774.5	1.55	777	775.27	1.48	777	773.97	1.88
		2op	774	769.53	2.05	777	774.2	2.14	777	774.97	1.85	775	772.27	1.6
	50	rnd	777	772.03	5.08	777	775.33	1.47	777	775	1.86	777	770.77	3.28

Table A.1368: f_{25-400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	762.67	9.85	777	773.03	3.07	777	771.47	5.54	777	769.47	8.24
		2op	770	767.93	2.02	772	769.6	0.77	774	770	1.58	772	769.47	1.14
	50	rnd	772	763.7	7.86	776	770.97	4.86	777	773.03	2.62	777	769.07	7.57
51	20	rnd	770	767.23	2.27	770	769.6	0.5	772	769.73	0.64	770	769.57	0.5
		2op	775	762.77	9.59	775	769.3	6.6	777	772.23	3.33	777	769.63	7.78
	50	rnd	770	767.9	2.17	774	769.6	1.28	774	769.7	1.26	774	769.83	1.23
	20	rnd	775	762.7	9.08	775	767.03	6.92	777	770.17	5.4	777	771.8	3.66
		2op	770	767.17	2.18	770	769.47	0.51	772	769.63	0.67	772	769.7	0.79
	50	rnd	775	762.7	9.08	775	767.03	6.92	777	770.17	5.4	777	771.8	3.66

Table A.1369: f_{25-400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.6	2.77	777	774.5	1.85	777	773.83	2.1	777	768.67	6.28
		2op	777	771.17	2.38	777	774.47	2.03	777	772.4	2.13	777	769.43	5.96
	50	rnd	777	772.6	2.97	777	774.77	1.38	777	774.67	1.52	775	770.77	3.14
51	20	rnd	775	770.8	1.92	777	774.73	1.7	777	775.33	1.21	777	769.87	3.7
		2op	777	770.87	4.82	777	773.67	2.4	777	774.1	1.84	777	772.93	3.11
	50	rnd	775	767.83	4.58	776	773.13	1.38	777	773.47	1.59	775	772.27	1.55
	20	rnd	777	773.5	1.93	777	774.6	1.73	777	775.7	1.15	777	773.07	3.04
		2op	775	769.97	2.51	777	773.93	1.48	777	775	1.84	777	772.63	1.94
	50	rnd	777	773.5	1.93	777	774.6	1.73	777	775.7	1.15	777	773.07	3.04

Table A.1370: f_{25-400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	770	760.5	10.38	776	770.47	6.53	777	772	2.96	777	770.03	8.07
		2op	770	767.27	2.18	774	769.77	1.33	772	769.6	0.67	770	769.27	1.08
	50	rnd	775	764.6	9.73	777	766.8	9.93	777	772.13	3.03	777	769.27	5.84
		2op	770	767.2	2.12	770	769.43	0.5	772	769.87	0.86	775	769.8	1.1
51	20	rnd	775	763.83	10.5	777	765.9	10.51	777	770.8	5.61	776	772.07	3.15
		2op	770	767.33	2.55	774	769.7	0.95	772	769.67	0.92	774	769.63	0.96
	50	rnd	775	765.77	7.53	777	766.77	10.38	777	770.1	5.27	777	772.73	3.65
		2op	770	767.6	2.24	770	769.4	0.5	770	769.3	0.47	770	769.6	0.5

Table A.1371: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	770.5	3.4	776	773.73	1.8	777	770.97	3.77	775	766.7	9.4
		2op	775	769.4	2.03	777	773.83	1.6	773	768.13	2.67	775	769.07	4
	50	rnd	777	772.43	2.66	777	774.77	1.55	777	770.73	4.27	776	767.27	6.55
		2op	777	770.37	2.98	777	774.07	1.62	776	770.6	2.87	775	767.3	6.45
51	20	rnd	777	771.47	2.75	777	773.33	2.48	777	772.37	2.67	777	771.1	3.14
		2op	772	769.43	1.22	777	772.07	1.82	774	771.2	1.42	772	768.5	2.33
	50	rnd	777	773.7	2.32	777	773.83	2.05	777	773.1	2.67	776	769.07	4.93
		2op	775	770.53	1.8	777	773.17	1.78	776	771.33	2.04	774	768.93	1.84

Table A.1372: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	774	763.13	10.14	776	770.03	3.4	777	770.7	3.72	777	769.13	5.63
		2op	770	768.23	1.63	770	769.17	1.26	774	768.07	2.35	774	768.57	3.3
	50	rnd	775	764.63	7.52	775	768.17	7.4	777	770.77	3.76	777	770.13	3.95
		2op	770	768.6	1.67	770	769.53	0.51	772	769.07	1.31	775	766.93	4.11
51	20	rnd	775	764.33	9.26	775	764.93	9.48	777	771.6	3.79	775	770.6	3.57
		2op	770	769.17	1.09	770	769.67	0.48	770	769.43	0.5	772	767.27	2.15
	50	rnd	775	764.3	9.07	774	766.5	6.63	777	769.73	4.73	777	769.93	4.84
		2op	770	769.03	1.13	770	769.3	1.02	770	769.4	0.5	770	766.97	2.01

Table A.1373: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	913.97	3.37	921	916.63	2.61	921	915.9	2.6	919	913.07	3.94
		2op	919	913.47	3.91	921	917.6	1.52	921	916.93	1.95	919	914.03	2.86
	50	rnd	921	915.1	2.99	921	917.8	2.35	921	918.2	2.04	919	912.97	3.84
51	20	2op	921	914.83	2.73	921	918	2.05	921	918.9	2.09	921	914.97	3.67
		rnd	919	913.47	3.53	921	915.77	2.45	921	917.53	2.24	921	915.93	2.96
	50	2op	917	914.23	2.27	919	916.63	1.07	921	917.73	1.72	921	916.2	1.45
	20	rnd	919	914.1	3.2	921	916.1	2.62	921	917.23	2.14	921	914.87	3.56
		2op	917	915.07	1.91	921	918.6	2.09	921	919.17	1.72	921	916.7	1.68
	50	rnd	919	914.1	3.2	921	916.1	2.62	921	917.23	2.14	921	914.87	3.56

Table A.1374: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	912.97	6.41	919	913.6	2.7	919	915.03	3.27	921	915.3	3.23
		2op	916	911.43	3.26	918	915.57	1.59	916	916	0	918	915.5	1.87
	50	rnd	919	912.13	6.33	919	912.83	6.22	921	915.13	2.87	921	914.2	3.21
51	20	2op	916	912.57	3.49	916	915.9	0.55	921	916.23	0.97	916	915.7	1.06
		rnd	918	909.8	9.5	919	914.17	3.75	919	914.53	3.4	919	914.3	2.82
	50	2op	916	911.8	3.78	918	916.07	0.37	918	916.07	0.37	916	915.97	0.18
	20	rnd	921	912.5	4.53	919	913.67	3.67	921	912.67	3.64	921	915.17	2.61
		2op	916	911.5	3.66	916	916	0	916	916	0	916	915.97	0.18
	50	rnd	921	912.5	4.53	919	913.67	3.67	921	912.67	3.64	921	915.17	2.61

Table A.1375: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.93	3.84	921	917.3	2.02	921	916.27	2.55	919	913.27	3.19
		2op	919	914	2.38	921	918.1	1.99	921	916.93	2.02	919	913.97	3.13
	50	rnd	921	913.83	3.12	921	916.83	2.12	921	917.8	2.06	919	914.83	3.12
51	20	2op	921	915.13	3.54	921	918.37	1.92	921	918.2	2.64	919	914.2	3.18
		rnd	919	914.13	2.32	919	915.53	2.3	921	916.3	2.38	921	915.9	3.13
	50	2op	917	914.73	2.21	921	916.43	2.3	921	918.27	1.98	921	916.77	1.68
	20	rnd	921	914.97	3.16	921	916.83	2	921	918.1	1.6	919	915	2.73
		2op	919	914.57	2.43	921	918.3	1.73	921	918.6	1.81	921	916.7	1.9
	50	rnd	921	914.97	3.16	921	916.83	2	921	918.1	1.6	919	915	2.73

Table A.1376: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	910.67	7.08	919	914.23	3.39	921	915.73	2.42	919	913.07	5.52
		2op	916	912.27	3.32	916	915.87	0.57	918	916.23	0.63	919	915.93	1.41
	50	rnd	919	911.6	7.67	919	913.63	3.46	921	914.97	2.74	919	914.7	3.71
51	20	rnd	916	911.5	3.88	916	915.87	0.57	921	916.4	1.59	918	916.07	0.37
		2op	918	911.37	4.67	919	913.07	4.52	919	914.1	2.78	919	915.3	3.01
	50	rnd	916	911.7	3.65	916	916	0	916	916	0	916	915.9	0.55
	20	rnd	918	911.2	3.39	918	913.23	4.11	919	914.57	3.21	921	914.43	3.65
		2op	916	910.73	3.85	916	916	0	916	916	0	916	916	0
	50	rnd	918	911.2	3.39	918	913.23	4.11	919	914.57	3.21	921	914.43	3.65
	20	rnd	916	910.73	3.85	916	916	0	916	916	0	916	916	0
		2op	918	911.2	3.39	918	913.23	4.11	919	914.57	3.21	921	914.43	3.65
	50	rnd	916	910.73	3.85	916	916	0	916	916	0	916	916	0

Table A.1377: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	913.57	2.91	921	916.8	2.3	917	911.47	2.49	918	910.83	4.74
		2op	918	914.6	2.31	921	917.43	1.77	918	911.2	3.46	919	912.6	3.93
	50	rnd	919	915.2	2.71	921	918	1.93	919	913.77	3.41	918	912.43	3.65
51	20	rnd	918	914.73	2.36	921	917.53	1.74	919	912.77	3.95	919	912.2	4.16
		2op	921	915.27	2.56	921	917.1	2.51	921	915.97	2.65	921	914.17	3.29
	50	rnd	916	915.83	0.91	921	916.73	1.55	917	916.03	0.18	921	914.6	3.41
	20	rnd	921	916.23	3.4	921	916.43	3.06	921	915.53	2.79	921	913.67	3.29
		2op	916	915.97	0.18	921	916.33	1.09	919	915.27	2.13	919	911.07	4.17
	50	rnd	921	916.23	3.4	921	916.43	3.06	921	915.53	2.79	921	913.67	3.29
	20	rnd	916	915.97	0.18	921	916.33	1.09	919	915.27	2.13	919	911.07	4.17
		2op	916	915.97	0.18	921	916.33	1.09	919	915.27	2.13	919	911.07	4.17
	50	rnd	916	915.97	0.18	921	916.33	1.09	919	915.27	2.13	919	911.07	4.17

Table A.1378: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	911.07	5.37	921	914.23	3.83	921	914.13	3.26	921	913.03	3.93
		2op	916	913.93	2.42	916	916	0	919	915.13	2.4	919	911.3	4.04
	50	rnd	921	913.5	3.93	921	912.7	5.49	921	915.03	2.93	919	913.43	3.84
51	20	rnd	916	914.17	2.31	916	916	0	916	916	0	921	911.7	4.17
		2op	918	912.43	5.06	921	910.53	8.58	919	913.7	4.85	919	912.6	4.47
	50	rnd	916	915.87	0.73	916	916	0	916	916	0	919	912.17	4.27
	20	rnd	919	912.73	3.3	921	912.9	7.1	918	913.23	3.1	919	912.83	3.18
		2op	916	915.3	1.6	916	916	0	916	916	0	919	911.67	4.12
	50	rnd	919	912.73	3.3	921	912.9	7.1	918	913.23	3.1	919	912.83	3.18
	20	rnd	916	915.3	1.6	916	916	0	916	916	0	919	911.67	4.12
		2op	916	915.3	1.6	916	916	0	916	916	0	919	911.67	4.12
	50	rnd	916	915.3	1.6	916	916	0	916	916	0	919	911.67	4.12

Table A.1379: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1577	1559.2	13.02	1572	1559.67	7.57	1572	1557.87	10.34	1573	1556.77	11.97
		2op	1575	1559.4	7.76	1573	1559.9	6.89	1572	1556.27	9.76	1572	1556.93	7.71
	50	rnd	1572	1558.97	9.22	1574	1560.2	6.89	1575	1560.03	8.06	1568	1553.8	12.88
51	20	rnd	1572	1558.83	8.19	1571	1562.03	5.12	1574	1556.73	8.84	1569	1558.47	7.43
		2op	1571	1559.2	10.68	1572	1559.37	8.34	1573	1559.7	10.56	1570	1553.83	11.19
	50	rnd	1573	1558.1	6.49	1570	1558.63	7.37	1575	1559.03	7.33	1568	1557.4	6.43
	20	rnd	1568	1554.9	10.05	1578	1562.03	7.48	1577	1558.9	6.95	1573	1555.77	9.33
		2op	1568	1558.33	5.42	1571	1562.1	5.36	1569	1559.13	5.92	1574	1556.1	7.87

Table A.1380: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1555.7	10.99	1577	1554.13	12.09	1572	1555.43	11.5	1577	1553.13	14.23
		2op	1567	1555.23	2.69	1569	1558.53	4.01	1575	1559.77	6.53	1575	1557.1	9.27
	50	rnd	1573	1558.77	7.03	1576	1560.7	6.65	1568	1551.4	11.31	1573	1552.73	14.14
51	20	rnd	1558	1553.7	1.6	1572	1564.47	4.68	1570	1558.4	5	1575	1559.43	5.47
		2op	1578	1555.43	10.7	1576	1556.03	10.81	1578	1559.07	10.39	1575	1557.33	9.8
	50	rnd	1565	1554.33	2.77	1572	1562.6	6.25	1572	1560.87	6.16	1572	1557.8	6.11
	20	rnd	1574	1554.6	12.34	1577	1558.6	9.76	1577	1560.57	9.77	1571	1556	9.86
		2op	1558	1554.27	1.57	1573	1562.43	5.78	1575	1563.73	4.96	1567	1557.07	4.48

Table A.1381: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1572	1557.03	9.7	1573	1558.37	7.81	1573	1555.9	9.26	1580	1557.3	10.89
		2op	1575	1557.97	9.56	1575	1559.2	8.1	1567	1554.2	9.23	1575	1557.93	10.09
	50	rnd	1575	1558.47	9.16	1576	1559.27	8.28	1574	1558.1	10.57	1574	1553.93	10.01
51	20	rnd	1574	1560.4	7.68	1577	1560.73	8.96	1575	1558.1	10.26	1569	1554.9	10.39
		2op	1577	1559.3	8.7	1580	1558.5	9.03	1574	1559.07	8.97	1573	1555.37	10.5
	50	rnd	1568	1558.83	5.96	1574	1559.4	7.22	1569	1558.33	5.38	1573	1558.13	5.26
	20	rnd	1576	1560.07	9.95	1579	1561.07	8.3	1579	1559.8	7.99	1573	1555.77	10.71
		2op	1569	1558.43	6.42	1574	1561.07	7.23	1575	1562.67	7.4	1570	1559	5.96

Table A.1382: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1555.27	11.11	1575	1556.6	10.75	1576	1556.03	10.9	1574	1552.93	13.69
		2op	1558	1553.8	1.58	1571	1561.07	5.05	1564	1556.4	4.75	1573	1557.3	7.65
	50	rnd	1575	1557.8	8.38	1574	1556.8	10.6	1573	1557.47	7.86	1571	1553.97	12.12
51	20	2op	1558	1553.9	1.63	1575	1563.8	4.9	1572	1558.47	6	1569	1559.4	6.22
		rnd	1577	1558.8	11.59	1574	1554.33	13.46	1572	1555.13	10.77	1570	1551.1	13.85
	50	2op	1558	1554.1	1.54	1569	1562.5	4.85	1569	1558.23	3.92	1570	1556.47	5.86
	20	rnd	1572	1556.17	9.6	1572	1557.37	10.56	1572	1554.4	11.22	1578	1557.07	12.3
		2op	1556	1553.93	1.23	1572	1564.43	5.07	1569	1561.7	4.95	1573	1557.7	5.94
	50	rnd	1572	1556.17	9.6	1572	1557.37	10.56	1572	1554.4	11.22	1578	1557.07	12.3

Table A.1383: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1580	1558.57	9.1	1575	1558	8.87	1573	1553.5	14	1568	1553.6	9.64
		2op	1568	1558.43	5.14	1573	1561.87	7.24	1571	1554.97	9.55	1575	1558.6	7.44
	50	rnd	1574	1558.77	8.72	1572	1557.33	7.25	1578	1556.23	8.91	1570	1556.37	11.53
51	20	2op	1571	1559.57	6.27	1573	1559.17	6.5	1568	1555.87	8.61	1578	1560.9	7.67
		rnd	1577	1559	7.76	1576	1560.83	6.57	1575	1557.7	10.63	1574	1554.6	10.49
	50	2op	1564	1556.63	2.63	1571	1567.2	3.36	1571	1557.27	5.24	1577	1556.13	8.95
	20	rnd	1572	1559.1	7.37	1573	1559.03	7.17	1576	1556.27	8.9	1577	1559.17	9.12
		2op	1568	1559.17	4.51	1570	1559.6	5.18	1572	1556.27	8.84	1575	1555.9	11.1
	50	rnd	1572	1559.1	7.37	1573	1559.03	7.17	1576	1556.27	8.9	1577	1559.17	9.12

Table A.1384: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1558.63	7.84	1571	1553.47	13.88	1570	1552.23	16.69	1574	1553.87	13.78
		2op	1558	1554.07	1.28	1567	1554.5	2.66	1573	1557.6	6.45	1568	1554.97	8.27
	50	rnd	1570	1555.27	9.21	1578	1555.33	10.42	1572	1558.6	10.21	1577	1555.53	11.79
51	20	2op	1558	1554.8	1.35	1563	1555.27	2.3	1570	1558.57	6	1569	1556.2	7.44
		rnd	1571	1555.87	13.41	1571	1555.87	11.44	1570	1555.4	11.17	1568	1552.77	10.66
	50	2op	1558	1554.4	1.22	1572	1555.83	4.03	1565	1555.33	4.44	1570	1556.4	6.52
	20	rnd	1574	1558.8	9.81	1570	1554.87	9.79	1571	1555.4	12.59	1573	1555.33	12.57
		2op	1564	1555.57	2.42	1573	1557.2	5.34	1574	1556.27	4.39	1571	1555.47	7.2
	50	rnd	1574	1558.8	9.81	1570	1554.87	9.79	1571	1555.4	12.59	1573	1555.33	12.57

Table A.1385: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1553.3	10.49	1569	1555.2	7.87	1566	1550.1	12.51	1565	1548.37	11.71
		2op	1567	1549.67	9.5	1563	1554.2	5.92	1569	1548.53	10.71	1560	1544	13.33
	50	rnd	1571	1552.67	9.59	1570	1555.2	7.2	1564	1553.77	8.77	1564	1551.73	9.46
51	20	rnd	1569	1547.97	12	1573	1556	7.38	1565	1552.43	8.97	1566	1543.73	15.53
		2op	1567	1553.93	10.9	1571	1554.67	9.62	1570	1556.4	7.84	1570	1550.67	10.04
	50	rnd	1564	1548	12.09	1570	1553.33	8.04	1567	1554.5	9.06	1566	1545.6	12.19
	20	rnd	1570	1551.4	7.72	1567	1555.2	7.63	1568	1557.8	5.94	1567	1550.57	11.79
		2op	1568	1552.13	10.2	1568	1553.2	8.48	1570	1555.7	7.88	1563	1546.37	10.58

Table A.1386: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1542	15.66	1570	1548.1	12.66	1566	1548.37	12.2	1568	1547.53	9.28
		2op	1540	1531.7	3.03	1564	1536.07	8.61	1566	1539.07	11.14	1565	1542.9	11.65
	50	rnd	1563	1542.9	12.22	1569	1551.87	11.75	1569	1554.6	10.57	1564	1549.67	10.32
51	20	rnd	1540	1531.23	1.77	1565	1544.83	11.45	1554	1535.5	7.25	1566	1542.67	12.55
		2op	1563	1543.5	11.97	1565	1549.57	10.44	1568	1555.13	8.17	1569	1552.27	10.55
	50	rnd	1554	1532.83	5.9	1569	1543.23	12.54	1555	1534.93	6.66	1565	1537.53	11.29
	20	rnd	1563	1543.6	12.79	1566	1546.63	11.06	1567	1549	12.45	1568	1551.47	12.71
		2op	1531	1530.93	0.37	1563	1536.3	9.89	1565	1537.43	8.46	1556	1535.13	9.42

Table A.1387: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1551.43	10.42	1569	1556.23	9.1	1569	1549.57	11.03	1566	1545.67	11.58
		2op	1572	1552.17	8.2	1570	1554.6	8.94	1563	1547.97	14.47	1567	1546.9	12.53
	50	rnd	1566	1554.5	9.5	1570	1554	7.47	1568	1552.67	9.01	1567	1546.6	13.18
51	20	rnd	1566	1548.67	11.98	1567	1553.23	8.67	1565	1551.47	7.6	1564	1548.7	10.39
		2op	1565	1552.83	8.17	1568	1550.8	9.13	1569	1553.3	8.46	1564	1552.73	7.95
	50	rnd	1565	1548.03	12.55	1571	1552.93	9.43	1569	1553.1	8.17	1570	1548.03	12.21
	20	rnd	1565	1553.8	8.51	1568	1555.23	9.09	1568	1557.1	7.27	1566	1554.23	12.49
		2op	1566	1551.77	10.86	1567	1556.17	8.04	1567	1555.87	6.66	1568	1548.2	10.93

Table A.1388: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1543.43	11.3	1566	1551.33	9.91	1565	1547.37	15.16	1567	1550.73	10.18
		2op	1540	1531.5	2.54	1566	1539.13	11.33	1567	1538.87	9.74	1569	1542.87	12.31
	50	rnd	1561	1544.97	11.3	1563	1553.07	7.76	1569	1550.47	10.01	1569	1551.57	10.49
51	20	2op	1531	1530.93	0.37	1565	1548.5	10.66	1560	1533.2	6.46	1556	1538.13	9.35
		rnd	1565	1540.07	12.04	1564	1549.97	10.16	1565	1551.87	9.8	1567	1549	11.02
	50	2op	1554	1532.5	5.73	1565	1539.9	11.65	1568	1537.13	10.6	1565	1538.77	10.78
	20	rnd	1566	1547.57	12.42	1567	1547.97	11.82	1566	1550.23	9.58	1562	1547.63	9.81
		2op	1531	1530.93	0.37	1561	1536.3	8.28	1557	1538.1	9.87	1554	1534.73	5.73

Table A.1389: f_{50_412} : transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1551.1	10.81	1569	1556.13	6.72	1564	1547.63	10.01	1570	1550.87	10.14
		2op	1569	1548.1	11.88	1568	1551.6	9.23	1562	1542.37	13.52	1564	1542.9	13.02
	50	rnd	1570	1551.57	7.61	1568	1556.07	7.41	1566	1548.4	12.35	1560	1544.2	11.4
51	20	2op	1570	1552.47	9.5	1567	1554.83	7.79	1569	1548.2	13.25	1566	1542.43	10.17
		rnd	1572	1555.4	9.51	1570	1556.23	9.55	1564	1550.5	9.92	1567	1550.73	9.67
	50	2op	1564	1552.63	7.39	1565	1557.1	3.39	1566	1543.13	11.72	1564	1538.47	10.15
	20	rnd	1567	1554.93	8.76	1568	1555.2	7.92	1569	1554.33	10.91	1571	1551.27	11.24
		2op	1565	1553.77	8.84	1565	1554.33	6.54	1567	1548.37	12.96	1565	1542.67	14.2

Table A.1390: f_{50_412} : basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1561	1542.97	10.46	1562	1547.93	8.25	1569	1548.73	9.75	1566	1546.33	12.98
		2op	1540	1531.3	1.64	1540	1531.57	2.16	1556	1539.47	9.39	1560	1539.77	11.21
	50	rnd	1565	1546.13	10.84	1569	1549.67	12.99	1563	1547.23	12.29	1569	1544.83	11.33
51	20	2op	1531	1531	0	1540	1531.27	1.66	1566	1539.97	9.55	1559	1540.3	9.72
		rnd	1565	1548.6	11.72	1566	1551.97	8.79	1568	1550.03	12.66	1570	1551.2	12.33
	50	2op	1531	1531	0	1540	1531.9	2.75	1563	1534	8.61	1556	1534.73	10.02
	20	rnd	1565	1544.03	11.56	1565	1548.07	8.64	1568	1547.97	12.74	1565	1544.83	12.66
		2op	1531	1531	0	1531	1531	0	1554	1533.4	5.82	1563	1537.03	9.24

Table A.1391: f_{50_412} : transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1565	1548.8	9.33	1564	1553.57	6.07	1568	1547.3	9.19	1562	1547.33	8.82
		2op	1563	1549.03	6.99	1565	1552.87	7.29	1559	1546.73	7.38	1560	1547.83	8.13
	50	rnd	1563	1549.9	8.28	1565	1550.5	6.92	1566	1550.3	8.38	1561	1548.5	8.73
51	20	2op	1565	1552.37	8.71	1568	1550.13	10.89	1570	1551.73	8.32	1564	1548.27	10.66
		rnd	1562	1550.57	8.11	1566	1550.5	9.3	1565	1551.33	7.87	1562	1549.47	9.47
	50	2op	1563	1549.87	6.73	1565	1551.87	5.95	1561	1551.13	5.76	1564	1552.03	6.23
	50	rnd	1561	1549.27	8.37	1562	1550.23	6.73	1563	1551.77	7.55	1564	1548.3	9.23
		2op	1565	1550.3	6.18	1566	1554.13	6.41	1568	1552.23	8.99	1566	1552.3	9.68

Table A.1392: f_{50_498} : basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1558	1547.3	8.48	1566	1550.27	8	1567	1547.8	9.26	1565	1548.53	7.4
		2op	1553	1548.67	1.49	1555	1548.43	1.38	1557	1549.03	3.45	1563	1550.97	7.29
	50	rnd	1562	1547.93	9.28	1565	1548.8	7.48	1566	1550	9.87	1561	1551.47	6.48
51	20	2op	1548	1547.5	2.11	1556	1548.7	1.88	1557	1548.27	1.66	1562	1551.27	5.46
		rnd	1559	1545.77	8.34	1565	1549.27	9.87	1567	1548.63	10.98	1559	1548.03	7.21
	50	2op	1557	1548.37	1.67	1558	1548.47	2.67	1557	1548.27	2.03	1560	1550.03	4.8
	50	rnd	1565	1548.27	9.15	1564	1549	7.31	1568	1549.07	8.66	1566	1549.5	8.96
		2op	1548	1548	0	1548	1548	0	1550	1548.07	0.37	1558	1549.4	3.37

Table A.1393: f_{50_498} : transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1549.67	10.98	1564	1549.23	9.9	1563	1549.9	9.51	1563	1547.27	8.66
		2op	1566	1548.87	7.14	1570	1552.87	8.48	1563	1551.13	7.59	1563	1549.23	8.47
	50	rnd	1565	1546.3	9.63	1563	1550.93	7.16	1560	1548.83	8.52	1563	1546.9	10.66
51	20	2op	1566	1553.47	6.98	1564	1550.1	9.4	1562	1549.1	7.33	1563	1551.8	6.41
		rnd	1562	1548.9	10.7	1565	1551.77	7.3	1565	1546.97	8.35	1564	1548.43	8.79
	50	2op	1560	1549.93	5.88	1564	1549.53	6.65	1566	1548.6	7.15	1567	1551.7	5.93
	50	rnd	1563	1550.17	7.33	1568	1550.83	9.07	1565	1551.97	10.29	1561	1549.77	7.32
		2op	1560	1547.9	9.05	1564	1551.33	5.92	1561	1551.4	6.09	1561	1549.7	8.54

Table A.1394: f_{50_498} : basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1561	1545.77	9.94	1566	1547.7	9.69	1567	1547.53	11.36	1567	1551	8.52
		2op	1560	1548.93	2.86	1552	1547.97	2.33	1557	1549.47	2.93	1563	1552.03	6.08
	50	rnd	1558	1546.33	7.64	1565	1548.5	8.41	1565	1547.3	11.87	1564	1550.43	9.27
51	20	2op	1553	1548.17	0.91	1553	1548.3	1.02	1557	1548.27	3.7	1561	1550.6	6.2
		rnd	1566	1547.1	8.81	1566	1547.27	9.63	1568	1549.13	9.03	1565	1543.83	13.08
	50	2op	1553	1547.93	2.36	1556	1548.7	1.99	1557	1548.83	2.36	1557	1549.43	4.39
	50	rnd	1561	1547.4	8.4	1566	1551.17	6.85	1564	1548	8.9	1563	1549.87	7.2
		2op	1548	1548	0	1548	1548	0	1550	1548.07	0.37	1557	1549.53	2.45

Table A.1395: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1552.73	8.31	1565	1550.77	10.16	1568	1547.73	10.51	1565	1548.47	10.21
		2op	1564	1550.07	5.63	1559	1550.33	4.75	1563	1548.07	9.04	1565	1552.67	8.38
	50	rnd	1567	1548.1	7.48	1564	1552.63	6.17	1566	1547.43	10.62	1562	1547.4	9.25
51	20	2op	1561	1551.83	4.86	1561	1552.77	5.03	1562	1551.33	8.61	1566	1549.37	9.99
		rnd	1565	1550.57	8.08	1563	1553.23	7.76	1565	1547.73	10.14	1564	1547.47	11.39
	50	2op	1550	1548.07	0.37	1561	1549.77	2.85	1561	1549.87	5.81	1564	1553.47	6.55
	50	rnd	1567	1548.57	7.96	1570	1552.33	8.53	1565	1548.33	8.47	1562	1547.57	9.65
		2op	1553	1548.53	1.68	1561	1549.23	3.24	1560	1549.77	6.85	1563	1549.37	9.56

Table A.1396: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1545.97	9.85	1559	1547	8.21	1560	1543.6	10.77	1566	1548.53	8.9
		2op	1548	1548	0	1548	1548	0	1557	1550.43	5.59	1562	1551.07	7.88
	50	rnd	1564	1547	8.09	1563	1550	8.94	1565	1549.53	9.82	1564	1546.97	10.68
51	20	2op	1548	1548	0	1557	1548.3	1.64	1558	1550.5	4.99	1565	1551.57	6.43
		rnd	1558	1546.9	6.5	1562	1546.6	11.81	1566	1547.73	8.39	1565	1548.07	10.01
	50	2op	1548	1548	0	1548	1548	0	1560	1548.5	2.42	1560	1549.67	4.65
	50	rnd	1564	1547.53	7.87	1560	1544.17	9.46	1566	1548.57	8.95	1568	1546.17	10.18
		2op	1548	1548	0	1548	1548	0	1557	1549	2.45	1561	1551.33	5.37

Table A.1397: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2775	2745.43	12.37	2771	2746.93	12.52	2771	2742.87	15.5	2757	2740.63	10.76
		2op	2771	2743.07	15.15	2775	2750.4	14.19	2777	2746.27	16.89	2767	2742.03	14.44
	50	rnd	2759	2741.7	10.47	2758	2742.2	12.08	2764	2741.27	12.31	2765	2742.07	13.61
51	20	rnd	2768	2746.73	14.51	2765	2746.97	13.03	2770	2748.1	13.6	2767	2745.87	12.79
		2op	2774	2752.43	12.61	2770	2754.57	9.39	2766	2750.5	13.48	2771	2746.5	12.4
	50	rnd	2771	2747.43	11.83	2764	2745.03	12.43	2763	2741.27	9.71	2763	2743.03	9.73
		2op	2778	2755.87	15.7	2776	2751.8	14.15	2773	2748.6	15.77	2768	2748.8	10.64

Table A.1398: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2762	2739.93	11.6	2780	2743.2	15.47	2758	2736.83	12.41	2767	2735.77	15.51
		2op	2778	2763	5.08	2778	2764.6	6.11	2778	2759.23	9.96	2775	2754.47	9.77
	50	rnd	2763	2741.9	12.86	2765	2741.13	12.04	2771	2746.7	13.43	2763	2733.1	12.9
51	20	rnd	2778	2763.8	4.4	2779	2764.03	5.09	2778	2761.6	10.77	2774	2755.53	10.15
		2op	2767	2741.37	15.33	2771	2745.07	13.38	2764	2738.07	15.62	2773	2738.73	17.81
	50	rnd	2771	2762.77	3.1	2771	2763.17	3.38	2776	2761.87	8.67	2774	2758.07	9.79
		2op	2762	2735.7	17.59	2766	2742.03	14.95	2767	2740.5	11.45	2772	2741.27	15
			2775	2762.53	4.32	2774	2762.5	4.22	2775	2763.43	3.87	2772	2762.3	6.42

Table A.1399: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2769	2744.13	18.01	2770	2743.97	13.74	2766	2741.4	13.77	2766	2746.3	10.41
		2op	2779	2749.87	11.55	2774	2747.67	14.03	2770	2748.6	11.68	2767	2747.8	12.23
	50	rnd	2773	2746.87	12.22	2768	2741.8	12.79	2765	2742.2	13.94	2763	2743.27	12.24
51	20	rnd	2776	2746.9	11.74	2770	2750.43	12.24	2768	2744.3	14.55	2768	2743.7	14.1
		2op	2764	2739.07	13.93	2774	2743.77	14.69	2763	2742.63	9.87	2767	2740.3	14.69
	50	rnd	2775	2756.13	9.48	2775	2754.07	10.38	2781	2751.97	11.96	2774	2752.6	11.15
		2op	2773	2742.37	11.93	2770	2745.67	10.48	2760	2741.83	9.08	2762	2740.23	16.01
			2770	2754.3	9.69	2770	2753.8	8.64	2764	2747.77	11.98	2768	2749.97	12.08

Table A.1400: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2773	2740.47	17.39	2764	2740.67	14.86	2761	2741.47	11.95	2766	2741.37	19.15
		2op	2775	2762.83	6.03	2778	2762.4	8.62	2775	2755.73	11.11	2776	2750.43	11.24
	50	rnd	2772	2742.53	11.68	2761	2739.87	15.75	2761	2742.83	11.19	2768	2740.03	15.66
51	20	2op	2770	2762.63	1.96	2773	2763.43	5.05	2778	2764.77	6.12	2774	2757.37	9.44
		rnd	2770	2739.2	13.97	2762	2739.87	15.91	2759	2737.03	15.24	2770	2739.6	18.61
	50	2op	2771	2762.37	1.75	2778	2763.27	3.64	2773	2762.97	5.86	2779	2758.47	11.37
		rnd	2775	2739.57	12.79	2772	2740.17	19.26	2767	2742.3	13.43	2759	2741.6	12.01
		2op	2768	2762.07	1.6	2773	2762.57	3.01	2770	2763.53	3.5	2773	2758.3	9.31

Table A.1401: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2766	2745.63	12.84	2771	2742.47	13.99	2760	2740.33	12.4	2765	2738.1	14.19
		2op	2777	2754.17	9.02	2776	2752.17	11.56	2767	2748.93	9.15	2770	2745.63	13.11
	50	rnd	2763	2741.43	12.74	2766	2742.23	14.44	2761	2743.03	10.45	2763	2736.83	13.97
51	20	2op	2774	2751.33	11.1	2773	2754.03	13.28	2767	2746.8	13.31	2772	2746.33	14.52
		rnd	2769	2746.37	14.21	2766	2746.27	9.4	2766	2744.27	12.45	2768	2743.83	15.24
	50	2op	2775	2763.23	4.85	2770	2763.23	4.06	2774	2759.6	7.17	2779	2749.23	12.77
		rnd	2769	2748.07	12.73	2763	2743.77	11.5	2764	2744.3	12.49	2761	2739.5	12.81
		2op	2776	2762.27	6.8	2772	2759.87	7.62	2774	2754.47	11.28	2771	2748.37	10.65

Table A.1402: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2765	2740.83	13.99	2767	2743	14.82	2767	2744.6	14.09	2770	2741.4	13.37
		2op	2770	2762.43	1.79	2771	2761.97	3.25	2770	2758.87	8.61	2773	2752.03	11.8
	50	rnd	2773	2739.73	12.51	2766	2743.4	11.52	2772	2742.53	15.67	2763	2743.23	11.83
51	20	2op	2769	2762.23	1.38	2770	2762.63	2.01	2778	2762.1	7.04	2770	2749.23	12.95
		rnd	2767	2738.87	16.12	2757	2737.37	13.92	2768	2738.93	17.31	2773	2740.37	14.28
	50	2op	2762	2761.93	0.37	2771	2762.13	1.8	2773	2764.13	5.37	2775	2755.03	11.44
		rnd	2759	2737.43	18.67	2759	2739.83	11.53	2769	2740.83	15.59	2773	2742.83	13.22
		2op	2762	2762	0	2767	2762.4	1.13	2774	2762.93	5.95	2779	2757.03	10.03

Table A.1403: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2810.7	14.63	2843	2814.37	14.41	2837	2814.13	15.34	2839	2813.9	12.79
		2op	2841	2811.83	14.99	2839	2811.43	13.93	2833	2810.03	13.19	2832	2810.13	11.23
	50	rnd	2837	2815.63	11.82	2838	2817.2	9.24	2840	2812.57	12.91	2835	2811.07	12.23
51	20	rnd	2841	2814.93	13.26	2835	2812.57	11.58	2835	2809.3	13.31	2830	2808.13	11.57
		2op	2831	2813.33	12.46	2835	2818.8	12.93	2835	2810.7	18.77	2844	2811.87	12.11
	50	rnd	2844	2804.23	18.04	2835	2814.1	8.11	2839	2811.5	16.38	2825	2805.23	12.55
	20	rnd	2837	2813.9	10.56	2838	2813	14.67	2832	2814.43	10.66	2842	2815.47	13.99
		2op	2830	2809.6	13.74	2842	2811.77	14.54	2848	2811.47	14	2835	2810.3	13.37

Table A.1404: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2834	2810.1	14.44	2838	2814.1	13.2	2845	2809.4	16.84	2835	2808.7	12.44
		2op	2820	2807.6	5.01	2821	2808.73	5.44	2833	2808.23	8.07	2835	2812.1	9.2
	50	rnd	2837	2813.87	16.35	2830	2811.4	14.13	2834	2807.53	17.03	2837	2805.97	14.87
51	20	rnd	2812	2806.53	3.57	2827	2807.4	6.09	2842	2808.63	8.26	2831	2809.67	11.48
		2op	2834	2809.7	14.7	2842	2815.6	9.57	2844	2813.63	12.79	2837	2809.1	16.26
	50	rnd	2818	2807.87	4.44	2821	2807.1	5.59	2828	2808.93	7.65	2839	2814.1	11.95
	20	rnd	2827	2808.7	10.57	2837	2811.73	18.95	2834	2812.4	12.84	2829	2806.13	12.85
		2op	2813	2806.63	3.58	2817	2806.73	5.22	2817	2807.73	5.75	2833	2808.23	11.47

Table A.1405: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2836	2814.27	12.29	2837	2810.27	15.73	2838	2814.8	14.12	2837	2814.8	10.91
		2op	2839	2814.93	13.03	2831	2816.87	9.04	2841	2814.4	13.76	2831	2808.03	14.14
	50	rnd	2839	2815.5	12.86	2840	2817.27	10.52	2840	2814.5	14.17	2843	2812.33	11.7
51	20	rnd	2841	2814.5	14.69	2837	2812.77	14.94	2835	2810.53	12.12	2838	2813.7	14.72
		2op	2837	2814.83	13.12	2848	2819.23	13.25	2836	2812.47	13.27	2833	2810.93	14.23
	50	rnd	2833	2807.43	11.23	2845	2814.6	13.91	2830	2807	11.75	2837	2812.53	14.48
	20	rnd	2839	2812	15.11	2838	2815.6	14.18	2842	2815.5	12.56	2838	2812.47	17.08
		2op	2843	2813.53	12.64	2841	2817.33	11.59	2840	2812.13	17.98	2841	2815.33	13.97

Table A.1406: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2827	2813.33	10.91	2830	2810.43	15.93	2838	2810.03	16.83	2838	2809.8	16.1
		2op	2824	2807.27	6.73	2823	2808.97	6.85	2835	2809.53	12.29	2834	2814.33	11.66
	50	rnd	2828	2813.37	8.71	2829	2813.1	9.13	2846	2812.37	16.9	2845	2813.27	13.93
51	20	2op	2814	2805.67	4.64	2820	2808.6	7.46	2833	2810.57	7.3	2834	2811.53	10.13
		rnd	2833	2807.73	14.14	2832	2812.53	14.3	2838	2810.37	13.69	2838	2814.4	10.51
	50	2op	2816	2806.23	5.76	2829	2808.7	7.5	2826	2807.2	8.04	2834	2811.87	10.59
		rnd	2842	2808.77	12.38	2835	2811.57	16.53	2838	2813.83	15.64	2836	2813.47	11.78
		2op	2814	2806.6	3.89	2816	2807.47	3.57	2821	2807.23	6.54	2837	2806.6	14.73

Table A.1407: f_{100_415} : transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2815.5	13.96	2835	2810.17	13.51	2837	2811.47	13.81	2825	2805.8	13.12
		2op	2841	2813.37	13.46	2834	2807.43	11.41	2838	2810.57	13.35	2846	2814	12.91
	50	rnd	2841	2814.5	14.51	2842	2815.57	14.3	2835	2805.03	15.11	2835	2814.8	11.06
51	20	2op	2833	2812.3	10.97	2838	2816.43	11.25	2843	2811.8	18.07	2835	2815.2	11.07
		rnd	2835	2814.77	11.36	2838	2816.23	15.99	2835	2811.67	13.78	2842	2814.87	15.36
	50	2op	2830	2806.67	6.97	2830	2805.83	7.93	2836	2813.17	8	2835	2806.7	14.19
		rnd	2842	2817.2	13.78	2838	2817.8	12.26	2834	2813.77	12.71	2845	2811.83	16.74
		2op	2845	2813.87	11.03	2838	2814.6	9.56	2834	2810.1	11.97	2838	2813.2	11.26

Table A.1408: f_{100_415} : basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2837	2810.47	16.11	2833	2807.57	17.14	2833	2813.1	12.89	2833	2809.67	15.24
		2op	2814	2805.83	5.98	2814	2805.57	5.91	2832	2809.93	10.52	2835	2809.7	15.52
	50	rnd	2839	2809.97	15.41	2839	2811.97	14.07	2840	2811.47	11.83	2837	2811.77	12.66
51	20	2op	2816	2806.67	3.56	2829	2808.53	4.99	2830	2808.6	8.89	2842	2809.17	17.74
		rnd	2836	2811.07	13.13	2842	2810.2	13.18	2839	2809.77	17.31	2835	2810.37	13.57
	50	2op	2813	2806.77	3.49	2813	2805.73	4.23	2824	2807.13	6.94	2834	2810.73	11.86
		rnd	2836	2811.63	9.95	2838	2807.2	13.97	2836	2814.77	10.4	2847	2811.97	15.89
		2op	2810	2805.8	2.8	2810	2805.9	3	2822	2809.57	7.58	2831	2809.2	10.97

Table A.1409: f_{100_415} : transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2682.97	12.42	2718	2688.87	15.28	2705	2686.83	11.3	2709	2684.5	13.12
		2op	2708	2689.37	14.07	2712	2689.93	11.12	2706	2687.33	10.87	2716	2684.17	14.99
	50	rnd	2708	2685.5	12.61	2708	2685.87	13.31	2704	2681.97	13.66	2710	2683.67	13.6
51	20	2op	2708	2692.07	10.3	2707	2689.1	12	2711	2688.7	12.78	2707	2686.23	12.72
		rnd	2712	2683.77	13.71	2700	2686.17	9.48	2705	2685.6	14.7	2709	2683.37	10.8
	50	2op	2708	2694.73	8.66	2707	2690.5	11.8	2716	2693.67	11.59	2706	2688.83	12.19
	20	rnd	2711	2690.43	13.68	2713	2688.63	11.68	2707	2684.73	14.17	2699	2680.3	15.67
		2op	2713	2691.4	10.58	2710	2695	10.01	2711	2693.4	9.01	2708	2688.8	11.99

Table A.1410: f_{100_512} : basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2709	2682.07	13.94	2710	2683.53	14.76	2714	2686.57	14.43	2702	2680.13	14.46
		2op	2700	2693.17	4.63	2706	2696.83	5.69	2708	2692.33	8.49	2708	2689.03	10.91
	50	rnd	2700	2683.37	13.28	2710	2684.37	17.53	2716	2683.37	11.39	2708	2687.77	11.23
51	20	2op	2706	2691.37	6.99	2704	2696.93	5.19	2706	2694.17	6.06	2716	2691.2	11.75
		rnd	2706	2683.07	12.72	2711	2685.7	15.65	2715	2687.43	14.11	2706	2684.3	10.92
	50	2op	2701	2693.17	4.62	2715	2696.1	5.84	2707	2695.6	5.17	2710	2692.33	9.88
	20	rnd	2708	2678.43	14.62	2713	2683.13	18.89	2710	2684.67	12.44	2710	2682.93	13.94
		2op	2699	2693.23	4.55	2702	2695.57	2.9	2705	2694.43	6.22	2709	2690.73	10.37

Table A.1411: f_{100_512} : transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2713	2686.87	13.88	2706	2689.07	11.16	2707	2688.2	9.3	2703	2685.03	13.53
		2op	2708	2687.03	9.77	2711	2689.23	11.92	2714	2684.53	14.37	2702	2686.17	11.07
	50	rnd	2702	2685.6	11.51	2712	2693.47	11	2703	2686.97	12.54	2709	2682.37	13.88
51	20	2op	2711	2692.77	13.12	2705	2688.67	10.07	2706	2691.6	8.91	2702	2685.57	11.86
		rnd	2709	2688	11.42	2708	2684.97	11.7	2709	2683.2	15.57	2717	2685.5	16.35
	50	2op	2708	2689	13.6	2711	2691.83	9.61	2713	2692.7	9.97	2707	2687.63	11.26
	20	rnd	2708	2683.97	11.42	2712	2688.8	13.32	2705	2682.83	11.9	2703	2684.17	16.39
		2op	2709	2689.7	11.52	2703	2692.53	8.99	2704	2688.8	10.19	2708	2691.47	10.5

Table A.1412: f_{100_512} : basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2700	2678.9	11.61	2713	2685.23	15.38	2710	2684.07	12.28	2706	2684.17	14.9
		2op	2704	2693.47	6	2703	2693.67	5.94	2710	2693.03	9.85	2708	2690	11.37
	50	rnd	2703	2684.07	11.43	2703	2683.47	10.51	2718	2683.87	12.34	2709	2682.33	14.12
51	20	2op	2703	2692.67	6.42	2711	2695.03	5.96	2710	2693.53	8.14	2717	2688.7	12.19
		rnd	2704	2679.5	12.68	2708	2685.97	13.7	2704	2682.23	13.35	2698	2678.97	14.18
	50	2op	2701	2693.97	5.73	2707	2697.77	4.81	2704	2692.8	7.68	2711	2693.73	9.72
		rnd	2703	2679.27	13.84	2708	2685.97	14.42	2707	2687.6	12.16	2707	2687.33	12.29
		2op	2703	2692.03	5.99	2701	2694.9	3.26	2709	2696.83	6.73	2711	2693.27	8.36

Table A.1413: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2707	2689.37	10.71	2714	2689.07	12.02	2710	2684.97	14.67	2701	2682.2	15.84
		2op	2715	2695.7	12.86	2709	2693.87	9.85	2709	2690.2	9.02	2710	2689.03	12.31
	50	rnd	2711	2688.4	13.69	2708	2684.6	15.89	2703	2684.63	13.24	2711	2685.67	11.35
51	20	2op	2708	2690	9.49	2711	2690	9.18	2709	2689.37	11.57	2705	2687.77	10.24
		rnd	2706	2685.93	12.66	2702	2688.43	8.88	2711	2686.83	15.97	2709	2683.83	12.16
	50	2op	2705	2696.37	3.76	2705	2695.57	4.84	2708	2693.67	7.98	2709	2690.5	13.29
		rnd	2709	2683.93	14.92	2702	2681.03	13.44	2710	2686.57	11.45	2713	2686.7	14.63
		2op	2708	2695.2	7.6	2713	2695.33	8.71	2704	2689.7	10.01	2713	2690.17	11.39

Table A.1414: f_{100_512} : basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2705	2678.3	11.29	2708	2683.83	12.38	2707	2687.23	11.59	2711	2689.4	16.56
		2op	2700	2694.77	3.19	2704	2694.57	4.47	2711	2695.3	8.5	2713	2693.47	11.01
	50	rnd	2702	2682.13	10.54	2706	2684.9	13.14	2706	2686.9	13.52	2711	2686.7	13
51	20	2op	2698	2694.3	2.53	2701	2694.83	3.62	2707	2691.63	8.36	2712	2692.17	9.43
		rnd	2700	2678.83	13.61	2703	2676.73	16.45	2705	2688.47	8.96	2713	2684.53	12.4
	50	2op	2700	2693.47	4.65	2706	2693.3	5.03	2704	2693.27	8.23	2705	2693.9	7.74
		rnd	2698	2684	11.47	2708	2685.73	13.76	2715	2687.6	12.83	2716	2685.53	14.8
		2op	2696	2695.07	0.25	2703	2694.8	3.13	2706	2691.2	8.16	2706	2692.47	9.2

Table A.1415: f_{100_512} : transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17882	17786.2	42.05	17841	17796.1	32.29	17871	17789.2	39.13	17863	17792.4	41.13
		2op	17864	17808.1	31.07	17894	17811.73	38.35	17862	17810.9	28.35	17880	17807.67	36.53
	50	rnd	17871	17807.37	32.64	17878	17798.63	36.52	17877	17803.53	41.03	17855	17782.07	37.76
51	20	2op	17883	17808.13	34.12	17887	17805.6	44.44	17896	17814.6	36.82	17857	17801.1	29.46
		rnd	17857	17791.1	41.11	17876	17812.03	35.42	17834	17786.23	41.81	17848	17785.43	39.5
	50	2op	17889	17825.17	33.4	17889	17820.37	37.66	17875	17807.57	35.04	17875	17809.3	33.69
	20	rnd	17866	17801.43	38.79	17869	17792.57	39.73	17878	17799.2	47.72	17889	17802.93	49.79
		2op	17882	17815.6	36.87	17877	17823.63	33.78	17882	17805.4	33.21	17896	17816.23	30.74

Table A.1416: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17870	17791.77	36.7	17886	17803	34.56	17887	17788.53	47.04	17845	17779.9	44.85
		2op	17863	17824.6	16.04	17879	17833.97	20.41	17896	17841.83	25.57	17866	17814.9	30.42
	50	rnd	17906	17800.47	45	17856	17799.73	35.11	17899	17799.47	35.64	17878	17785.33	46.37
51	20	2op	17863	17821.53	18.21	17891	17831.27	22.35	17896	17833.13	26.91	17891	17836.7	30.8
		rnd	17899	17802.9	38.21	17871	17798.8	34.96	17866	17793.8	42.53	17860	17796.47	36.81
	50	2op	17851	17825	16.06	17867	17833.3	19.58	17888	17829.83	25.55	17886	17836.5	27.95
	20	rnd	17859	17792.17	35.18	17847	17781.93	38.19	17921	17808.7	37.78	17876	17791	48.27
		2op	17871	17821.8	19.39	17875	17826.5	23.11	17884	17835.53	22.87	17899	17837.07	26.08

Table A.1417: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17844	17790.5	29.01	17910	17801.73	44	17880	17794.73	46.31	17887	17806.9	31.33
		2op	17880	17812.33	40.03	17880	17808.53	47.04	17856	17804.33	33.49	17883	17810.4	38.24
	50	rnd	17886	17803.37	36.65	17879	17804.57	36.42	17882	17815.67	30.07	17843	17789.63	32.32
51	20	2op	17881	17813.33	37.47	17877	17817.1	38.58	17881	17811.7	40.25	17863	17805.37	34.76
		rnd	17925	17796.87	41.37	17868	17797	43.42	17887	17792.33	47.55	17868	17796.07	36.27
	50	2op	17909	17818.9	40.95	17888	17811.83	40.7	17888	17828.9	31.62	17874	17794.9	34.16
	20	rnd	17853	17796.07	33.06	17861	17801.5	33.06	17898	17808.4	30.79	17833	17792.77	34.09
		2op	17877	17821.13	31.69	17883	17817.33	28.69	17877	17817.53	34.99	17888	17807.2	37.05

Table A.1418: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17880	17792.03	40.22	17880	17804.97	33.95	17886	17787.7	45.68	17882	17796.63	40.29
		2op	17863	17828.73	18.07	17889	17833	20.9	17888	17832.73	25.74	17887	17826.53	31.52
	50	rnd	17861	17798.4	33.86	17850	17798.53	31.82	17884	17790.37	44.28	17877	17796.9	45.64
51	20	2op	17913	17818.8	29.31	17859	17825.4	18.97	17885	17838.37	23.8	17894	17833.33	31.55
		rnd	17897	17797.2	39.64	17861	17796.23	35.58	17866	17793.8	41.1	17863	17800.83	36.76
	2op	17872	17832.8	17.88	17876	17827	21.24	17885	17829.73	24.64	17897	17836.03	25.27	
	50	rnd	17921	17803.57	41.35	17876	17793.77	44.69	17866	17783	44.78	17893	17808.33	41.73
		2op	17871	17820.87	20.8	17860	17825.47	21.61	17896	17823.57	27.55	17906	17833.17	28.47

Table A.1419: $f_{508.354}$: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17879	17798.03	37.31	17899	17790.47	53.04	17880	17790.57	40.15	17866	17795.7	37.21
		2op	17886	17822.77	30.58	17896	17814.67	31.22	17869	17812.97	33.77	17870	17800.17	33.01
	50	rnd	17865	17800.23	28	17859	17809.8	30.08	17901	17814.67	40.25	17888	17806.53	43.87
	20	2op	17891	17819.87	40.14	17872	17820.17	31.39	17893	17812.2	34.02	17887	17801.67	35.39
51	20	rnd	17865	17804.77	32.95	17862	17802.3	27.88	17849	17797	36.03	17906	17810.43	39.77
		2op	17891	17822.67	27.54	17891	17829.83	27.84	17870	17817.87	26.03	17874	17817.73	29.8
	50	rnd	17836	17782.27	32.19	17874	17789.47	36.63	17853	17790.17	31.19	17867	17801.9	37.22
		2op	17896	17822.67	39.57	17896	17822.97	39.74	17889	17814.1	32.68	17864	17807.03	38.19

Table A.1420: $f_{508.354}$: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17853	17797.6	40.81	17877	17789.93	35.25	17843	17788.17	32.32	17862	17793.07	43.34
		2op	17867	17821.9	18.08	17882	17822.4	23.29	17876	17836.33	24.01	17888	17812.73	36.49
	50	rnd	17868	17797.23	44.88	17883	17806.77	36.28	17866	17800.07	29.95	17881	17793.03	46.05
		2op	17850	17819.1	17.11	17861	17827.87	20.35	17911	17849.87	26.3	17900	17828.17	25.88
51	20	rnd	17841	17789.63	38.56	17834	17782.23	31.52	17904	17785.93	43.57	17883	17795.3	43.21
		2op	17881	17829.83	18.65	17860	17824	20.35	17896	17840.87	30.04	17920	17835.9	36.35
	50	rnd	17899	17797.63	44.4	17851	17800.33	31.84	17861	17803.53	32.55	17872	17798.73	37.59
		2op	17868	17819.8	20.93	17855	17825.53	17.08	17884	17825.37	24.21	17914	17833.93	27.64

Table A.1421: $f_{508.354}$: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22138	22071.3	45.43	22170	22064.8	43.43	22183	22056.63	48.21	22133	22060.53	36.71
		2op	22174	22079.07	54.78	22156	22084.07	38.95	22132	22062.47	38.29	22177	22072.13	44.87
	50	rnd	22167	22082.03	39.55	22143	22070.47	43.39	22161	22075.33	47.57	22170	22080.4	39.39
51	20	2op	22165	22087.8	39.93	22139	22077.43	34.16	22173	22079.73	52.92	22164	22080.5	39.25
		rnd	22164	22082	51.82	22146	22066.33	34.85	22170	22065.7	44.12	22193	22066.6	54.18
	50	2op	22160	22093.23	38.37	22150	22080.93	38.23	22164	22083.43	39.86	22195	22081.33	51.71
	20	rnd	22137	22069.23	43.42	22143	22057.6	48.01	22139	22065.53	46.61	22202	22084.37	46.51
		2op	22154	22084.23	35.39	22170	22093.33	41.93	22171	22087.8	45.49	22123	22070.1	31.31

Table A.1422: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22166	22068.7	38.72	22124	22045.63	51.44	22139	22066.67	39.99	22154	22049.23	46.84
		2op	22167	22130.67	18.82	22180	22121.93	30.73	22199	22145.3	32.38	22175	22107.3	47.96
	50	rnd	22137	22063.8	53.57	22180	22076.07	47.99	22141	22059.43	50.97	22129	22064.27	35.39
51	20	2op	22162	22121.73	26.96	22198	22132.9	25.85	22214	22133.97	35.34	22220	22117.93	38.48
		rnd	22138	22068.4	38.27	22178	22072.13	52.6	22133	22064.53	40.4	22123	22064.33	41.55
	50	2op	22165	22128.93	27.66	22177	22125.97	27.84	22196	22140.53	26.23	22192	22126.77	35.6
	20	rnd	22175	22065.27	54.99	22162	22065.77	38.94	22146	22061.5	42.27	22171	22066.8	48.14
		2op	22178	22123.13	26.74	22169	22125.8	21.39	22199	22134.77	28.07	22178	22133.87	26.15

Table A.1423: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22140	22059.03	36.75	22184	22082.97	46.58	22146	22057.5	46.54	22145	22065.43	42.4
		2op	22183	22082.93	38.96	22163	22076.7	41.61	22168	22074.17	36.61	22156	22080.7	43.51
	50	rnd	22141	22068.53	46.9	22145	22060.7	37.7	22155	22067.73	51.82	22161	22070.83	43.84
51	20	2op	22188	22086.6	45.39	22178	22087.07	45.14	22219	22077.8	46.91	22142	22073.47	38.71
		rnd	22144	22071.83	43.05	22157	22073.23	43.72	22183	22055.93	44.98	22144	22067.37	43.53
	50	2op	22157	22094.47	37.08	22185	22093.47	45.41	22175	22088.4	38.22	22143	22065.43	54.76
	20	rnd	22120	22066.67	35.27	22136	22065.27	45.87	22143	22047	58.62	22155	22060.2	46.45
		2op	22164	22092.13	49.41	22160	22096.23	45.81	22164	22075.23	54.71	22170	22094.43	39.52

Table A.1424: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22163	22078.77	47.16	22160	22080.27	45.12	22130	22050	42.62	22133	22053.47	42.87
		2op	22192	22126.63	29.19	22183	22138.07	31.52	22187	22134.1	28.98	22196	22116.47	34.86
	50	rnd	22162	22057	46.54	22134	22058.33	42.67	22148	22055.83	45.7	22135	22063.97	41.79
51	20	2op	22178	22129.1	29.36	22184	22128.67	26.73	22199	22138.47	34.91	22183	22112.03	44.15
		rnd	22192	22068.07	47.16	22155	22073.33	51.26	22146	22065.43	42.14	22154	22061.8	50.3
	50	2op	22164	22129.93	22.78	22189	22136.07	30.74	22203	22135.9	32.81	22229	22127.37	40.23
	20	rnd	22148	22064.6	43.2	22160	22058.07	45.14	22168	22067.17	35.91	22168	22071.2	43.66
		2op	22172	22120.07	26.71	22178	22122.13	31.14	22191	22138.97	29.77	22198	22124.4	34.03

Table A.1425: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22178	22084.53	48.81	22150	22075.37	52.84	22203	22078.03	50.14	22133	22049.13	43.7
		2op	22179	22097.27	39.56	22148	22094.6	32.7	22158	22080.03	34.52	22136	22072.3	33.35
	50	rnd	22163	22065.93	48.08	22153	22060.87	52.35	22130	22048.6	45.97	22128	22056.87	47.98
51	20	2op	22173	22098.9	34.28	22186	22092.23	41.87	22180	22075.53	48.18	22153	22076.43	40.73
		rnd	22199	22068.6	47.82	22199	22068.6	47.82	22143	22067.33	44.74	22200	22068.97	60.78
	50	2op	22204	22121.6	35.19	22204	22115.53	33.89	22179	22103.37	39.02	22201	22096.33	47.68
	20	rnd	22155	22076.93	44.65	22155	22078.97	42.31	22154	22072.8	43.81	22166	22062.43	45.63
		2op	22175	22106.07	41.22	22198	22113.47	42.78	22169	22097.5	30.35	22165	22095.27	43.2

Table A.1426: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22164	22058.03	51.71	22155	22063.5	43.82	22137	22065.53	38.39	22220	22069	53.22
		2op	22181	22121.93	26.19	22194	22133.33	25.57	22198	22132.4	37.25	22187	22106.43	42.42
	50	rnd	22136	22061.77	35.82	22128	22063.03	44.63	22176	22077.53	40.82	22157	22060.33	47.29
51	20	2op	22186	22126.77	30.31	22192	22127.57	28.44	22200	22129.07	33.92	22194	22105.83	44.64
		rnd	22142	22076.33	44.3	22158	22068.6	49.43	22182	22087.17	43.58	22146	22066.73	47.13
	50	2op	22171	22122.07	26.72	22177	22120.3	31	22192	22132	30.58	22177	22102.87	38.51
	20	rnd	22128	22042.77	54.62	22169	22065.13	39.38	22176	22065.6	46.62	22148	22060.73	48.87
		2op	22172	22126.93	27.66	22206	22132.6	34.71	22176	22129.7	27.72	22218	22133.4	33.48

Table A.1427: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24737	24662.73	44.97	24747	24639.5	56.87	24752	24672.57	49.29	24776	24660.43	50.57
		2op	24816	24672.03	46.28	24728	24664.77	37.49	24733	24664.87	41.35	24769	24667.77	50.36
	50	rnd	24759	24667.47	51.05	24771	24656.47	51.22	24728	24664.8	39.58	24747	24655.83	41.04
51	20	2op	24773	24680.4	41.5	24755	24689	49.2	24764	24662.27	48.58	24763	24676.33	43.19
		rnd	24782	24673.73	50.69	24791	24669.97	50.42	24744	24664.77	52.91	24746	24655.37	44.26
	50	2op	24764	24690.03	33.14	24774	24686.67	48.27	24786	24668.33	48.5	24761	24674.53	38.26
	20	rnd	24777	24664.43	53.11	24746	24674.87	36.95	24795	24653.17	57.01	24746	24653.8	46.42
		2op	24796	24680.9	43.98	24754	24675.87	39.95	24776	24684.4	49.12	24766	24664.6	50.86

Table A.1428: f_{737_355} : basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24735	24674.03	43.38	24731	24659.37	49.11	24762	24667.8	51.36	24741	24671.9	43.3
		2op	24758	24686.27	37.67	24778	24700.63	35.18	24794	24699.57	39.98	24760	24669.5	35.95
	50	rnd	24754	24651.7	60.03	24775	24656.33	39.57	24732	24663.2	40.92	24764	24683.3	43.68
51	20	2op	24760	24674.97	42.56	24757	24695.77	38.78	24754	24683.3	33.48	24757	24687.47	39.31
		rnd	24808	24662.53	65.95	24731	24665.37	34.7	24790	24681.97	49.91	24747	24658.4	48.67
	50	2op	24769	24694.57	40.81	24746	24689.8	36.73	24769	24688.63	41.29	24778	24697.3	35.47
	20	rnd	24742	24655.17	49.91	24767	24664.9	48.45	24754	24658.63	51.39	24746	24671.27	47.59
		2op	24726	24684	28.83	24767	24693.43	37.32	24763	24701.8	32.8	24776	24701.53	40.43

Table A.1429: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24770	24680.73	38.89	24744	24665.7	55.27	24752	24660.63	59.78	24772	24673.63	46.01
		2op	24844	24661.1	62.73	24803	24670.23	50.18	24776	24668.37	54.44	24770	24683.27	46.38
	50	rnd	24752	24663.53	50.09	24727	24665.1	38.52	24771	24647.43	62.5	24778	24664.53	54.67
51	20	2op	24754	24662.83	54.36	24771	24686.4	43.51	24733	24659.17	35.85	24749	24687.43	48.58
		rnd	24763	24674.6	47.46	24770	24665.4	53.88	24800	24659.97	49.22	24746	24662	54.21
	50	2op	24747	24684.87	38.28	24744	24672.23	38.67	24772	24662.1	46.08	24720	24662.57	37.64
	20	rnd	24775	24683.23	49.99	24730	24671.83	38.58	24767	24679.8	42.61	24760	24675.63	53.21
		2op	24756	24678.07	50.28	24796	24680	54.64	24787	24685.6	40.08	24741	24669.87	40.71

Table A.1430: f_{737_355} : basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24753	24667.9	54.58	24771	24682.13	50.59	24762	24668.57	53.11	24784	24665.27	51.19
		2op	24730	24686.73	29.37	24785	24699.57	35.22	24795	24688.87	33.36	24749	24695.37	34.59
	50	rnd	24729	24661.23	40.52	24744	24670.93	41.89	24788	24661.23	48.81	24754	24669.67	41.53
51	20	2op	24728	24679.8	32.73	24763	24692.43	43.14	24790	24697.83	34.95	24793	24690.53	49.59
		rnd	24747	24667.6	49.15	24788	24678.7	46.57	24781	24663.57	53.57	24734	24666.8	46.16
	50	2op	24729	24669.03	26.96	24746	24688.23	30.4	24774	24692.17	29.69	24778	24687.77	35.74
	50	rnd	24745	24664.7	49.48	24811	24683.17	62.38	24812	24659	53.61	24736	24649.9	41.68
		2op	24732	24679.93	29.93	24763	24692.57	36.63	24775	24697.63	37.68	24772	24692.97	40.52

Table A.1431: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24757	24675.83	47.13	24732	24657.53	41.06	24720	24640.67	46.92	24754	24657.37	43.04
		2op	24790	24675.77	52.45	24748	24666.1	50.84	24777	24662.73	48.91	24767	24679.2	49.43
	50	rnd	24739	24651.23	53.09	24732	24652.4	45.58	24759	24657.27	56.2	24751	24675.67	32.95
51	20	2op	24752	24667.23	39.05	24781	24682.93	38.61	24767	24681.87	47.78	24772	24679.3	44.62
		rnd	24782	24672.13	54.39	24782	24672.13	54.39	24766	24673.33	52.29	24797	24667.97	61.86
	50	2op	24774	24683.83	38.46	24774	24683.83	38.46	24778	24671	55.37	24786	24667.57	58.67
	50	rnd	24754	24674.3	41.95	24754	24674.3	41.95	24757	24650.8	53.14	24734	24661.07	34.91
		2op	24780	24705.2	32.24	24780	24705.2	32.24	24736	24657.47	43.8	24760	24678.9	48.06

Table A.1432: f_{737_355} : basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24809	24674.27	43.08	24787	24666.63	43.53	24750	24659.13	57.33	24796	24681.93	53.35
		2op	24778	24687.57	34.29	24751	24686.2	38.87	24798	24689.13	44.55	24790	24680.73	44.59
	50	rnd	24727	24646.43	41.62	24742	24662.17	45.47	24771	24656.37	59.25	24750	24666.93	45.65
51	20	2op	24740	24678.57	33.48	24754	24681.27	34.04	24796	24706.7	37.16	24775	24706.03	35.91
		rnd	24778	24664.87	53.45	24755	24674.7	51.6	24775	24657.97	49.92	24729	24642.2	48.06
	50	2op	24756	24682	34.36	24742	24682.8	30.55	24757	24691.7	32.02	24792	24689.73	45.61
	50	rnd	24749	24661.1	46	24778	24668.43	44.53	24791	24672.3	52.43	24757	24665.63	49.5
		2op	24757	24681.8	33.33	24758	24681.6	38.16	24737	24695.43	22.23	24790	24693.3	43.89

Table A.1433: f_{737_355} : transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47970	47857.6	61.56	47974	47860.57	83.4	47985	47841.37	83.33	48016	47857.93	80.98
		2op	48104	47872.77	99.07	47990	47871.77	69.75	48058	47881.13	55.18	48004	47858.17	63.21
	50	rnd	48057	47894.67	84.9	47986	47856.03	77.18	48017	47836	76.2	48025	47848.67	70.98
51	20	2op	48080	47908.57	74.1	48007	47860.73	58.27	48012	47869.03	74.37	48015	47888.53	59.38
		rnd	48067	47877.27	70.49	48067	47868.37	89.96	47960	47867.07	67.08	48024	47849.87	72.61
	50	2op	48003	47891.6	69.31	48055	47886.97	67.93	48039	47882.47	63.55	48031	47875.43	67.32
	20	rnd	48042	47865.43	71.56	48096	47840.37	97.09	48030	47855.27	79.85	48029	47847.23	90.2
		2op	48079	47908.27	71.27	48028	47892.33	87.67	48041	47884.13	69.93	48078	47886.13	80.9

Table A.1434: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48003	47857.47	99.4	47998	47840.37	91	47965	47832.73	69.6	47964	47815.27	76.6
		2op	48007	47905.9	50.89	48043	47910.87	55.24	48124	47927.4	91.19	48103	47915.97	69.44
	50	rnd	47997	47846.03	83.05	47970	47854.77	63.47	47983	47837.47	66.1	47994	47866.53	59.53
51	20	2op	48027	47887.67	59.75	48030	47920.13	70.36	48067	47960.3	61.83	48030	47919.9	58.29
		rnd	47959	47815.17	67.55	47973	47863.53	67.3	48090	47831.73	108.29	47999	47810	102.62
	50	2op	48007	47918.37	54.99	48022	47924.17	59.65	48154	47930.6	63.03	48091	47945.07	81.32
	20	rnd	48012	47852.37	88.23	48002	47834.47	75.25	47957	47856.5	71.38	47979	47846.3	79.58
		2op	47994	47895.97	51.61	48010	47914.9	54.56	48029	47915.3	52.35	48094	47948.17	68.4

Table A.1435: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48033	47858.03	76.76	48077	47848.13	100.18	47967	47832.2	79.98	47971	47849.3	83.01
		2op	48016	47896.63	76.49	48051	47878	65.94	48030	47876.03	81.42	48008	47865.6	71.59
	50	rnd	48000	47861.3	84.69	48025	47861.37	72.3	48032	47823.83	101.51	48043	47863.1	87.03
51	20	2op	48096	47870.2	95.19	48040	47858.57	82.46	48050	47852.9	85.44	48013	47880.5	75.12
		rnd	48051	47907.73	77.27	47993	47864.2	76.6	47960	47831.37	75.98	48098	47871.6	92.92
	50	2op	48108	47903.37	77.76	48017	47872.97	83.35	48048	47879.63	72.11	48046	47884.37	68.98
	20	rnd	48021	47851.93	80.68	47990	47861.6	68.72	47940	47824.3	60.56	47979	47849.33	73.33
		2op	48056	47920.03	77.32	48132	47918.07	79.27	48029	47875.47	70.79	48108	47864.83	96.88

Table A.1436: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47993	47850.57	75.47	48010	47877.1	74.91	48003	47828.13	114.68	48041	47867.13	74.19
		2op	48010	47913.97	57.44	48032	47928.17	60.18	48039	47925.3	60.57	48094	47913.53	69.16
	50	rnd	47982	47856.47	81.14	48081	47850.5	73.37	48033	47860.53	87.26	47993	47858.43	86.78
51	20	2op	47984	47899.43	56.69	48021	47915.53	57.08	48072	47932.43	67.82	48036	47911.2	69.82
		rnd	48059	47876	88.89	47978	47843.5	76.05	47970	47867	63.03	47996	47857.13	84.33
	50	2op	48025	47918.8	53.21	48084	47945.2	60.64	48052	47942.5	50.02	48061	47934.83	65.38
	20	rnd	48016	47851.97	74.44	47948	47848.83	67.03	48029	47825.8	63.68	48027	47845.27	96.44
		2op	48059	47920.77	61.83	48018	47925.97	55.69	48061	47933.3	66.43	48045	47924.63	71.21

Table A.1437: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48002	47844.03	68.81	48002	47844.03	68.81	47998	47865.57	70.59	48008	47838.6	81.28
		2op	48087	47927.4	67.38	48087	47927.4	67.38	48104	47877.97	75.13	48040	47884.5	69.46
	50	rnd	47964	47864.73	63.01	47964	47864.73	63.01	47983	47848.3	68.07	47998	47858.77	61.59
51	20	2op	48054	47892.23	82.12	48054	47892.23	82.12	48004	47865.87	74.99	48009	47877.5	77.4
		rnd	48035	47861	70.01	48035	47861	70.01	47962	47856.27	61.44	47942	47832.03	60.48
	50	2op	48086	47910.27	76.76	48086	47910.27	76.76	48024	47895.77	66.64	48098	47887.67	80.97
	20	rnd	48042	47841.27	77.04	48042	47841.27	77.04	47976	47809.13	85.75	47991	47810.1	89.97
		2op	48161	47899.9	81.34	48161	47899.9	81.34	47986	47886.07	47.49	48031	47869.2	74.26

Table A.1438: f_{1343_354} : basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48067	47865.93	79.66	47977	47860.63	76.74	47978	47866.5	67.57	47976	47854.8	59.08
		2op	48046	47931	60.32	48090	47937.3	53.94	48068	47945	68.12	48069	47911.1	76.17
	50	rnd	47965	47854.07	64.58	47957	47855.57	70.13	48090	47887.67	82.34	47966	47838.6	63.15
51	20	2op	48013	47908.23	60.7	48007	47900.53	56.1	48047	47921.53	76.96	48092	47952.47	76.02
		rnd	48092	47864.67	79.98	48092	47864.67	79.98	48112	47844.97	110.85	47945	47840.17	60.56
	50	2op	48168	47945.23	77.72	48062	47926.7	55.95	48010	47919.5	58.49	47988	47912.83	44.89
	20	rnd	47995	47860.03	93.25	47990	47844.83	80.31	48015	47871.93	64.9	48039	47866.63	91.73
		2op	47997	47907.7	53.85	48024	47912.67	58.02	48013	47934.73	50.45	48105	47957.3	71.6

Table A.1439: f_{1343_354} : transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56133	55944.5	86.47	56108	55940.9	94.81	56055	55922.33	79.46	56131	55911.13	113.25
		2op	56133	55964.17	95.99	56122	55963.73	89.3	56214	55938.43	102.21	56114	55953.93	109.64
	50	rnd	56124	55930.8	81.75	56130	55927.27	102.67	56098	55902.5	89.02	56205	55937.6	104.6
51	20	rnd	56179	55989.73	81.19	56098	55958.3	82.79	56103	55950.03	76.22	56193	55978.1	88.92
		2op	56100	55935.07	82.69	56086	55939.1	83.46	56147	55900.13	85.57	56088	55925.9	71.94
	50	rnd	56202	55979.4	83.12	56102	55959.7	88.69	56105	55958.93	93.49	56111	55974.3	80.33
	20	rnd	56151	55970.2	79.4	56144	55959.33	88.91	56105	55913.97	85.75	56045	55929.27	67.48
		2op	56134	55987.6	68.41	56193	55986.1	82.81	56131	55967.3	82.61	56064	55949.07	53.55

Table A.1440: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56093	55893.87	103.21	56148	55945	80.61	56182	55942.17	98.7	56047	55916.13	85
		2op	56156	55984.27	70.12	56116	55978.77	62.46	56161	56024.27	69.23	56171	56016.57	83.75
	50	rnd	56152	55916	105.66	56131	55959.53	72.93	56110	55936.77	76.84	56051	55898.37	77.95
51	20	rnd	56168	55946.73	69.47	56170	55977.33	71.19	56161	56027.8	61.93	56168	56020.8	79.09
		2op	56065	55928.83	83.98	56104	55955.53	72.05	56120	55945.33	80.11	56077	55903.77	83.29
	50	rnd	56056	55949.4	55.61	56093	55962.4	56.59	56124	56006.87	60.58	56161	56024.9	62.77
	20	rnd	56030	55909.7	59.99	56057	55941.67	87.74	56083	55909.87	72.49	56168	55943.4	116.23
		2op	56041	55939.43	57.72	56084	55960.2	53.98	56104	55980.77	59.95	56151	56025.13	57.35

Table A.1441: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56168	55962.37	104.1	56088	55941.73	88.05	56080	55927.8	74.91	56125	55936.5	96.18
		2op	56159	55993.77	69.24	56145	55996.2	77.4	56121	55968.6	90.05	56145	55953.63	72.82
	50	rnd	56172	55960.07	92.73	56066	55931.37	76.16	56083	55955.5	81.91	56029	55916	87.14
51	20	rnd	56129	56006.67	77.86	56137	55952.73	97.68	56094	55963.1	90.63	56067	55951.73	77.18
		2op	56099	55953.03	78.58	56098	55965	83.41	56168	55952.97	96.98	56068	55935.03	84.74
	50	rnd	56156	55996.27	82.24	56142	56004.8	77.38	56099	55936.9	75.27	56098	55988.07	65.89
	20	rnd	56099	55933.73	76.18	56177	55936	89.32	56073	55933.33	80.87	56092	55925.3	73.22
		2op	56106	55987.3	78.26	56169	56002.03	69.78	56155	55969.33	109.15	56113	55979.23	72.3

Table A.1442: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56139	55909.33	104.41	56107	55949.2	80.46	56020	55898.47	69.87	56155	55955.43	91.27
		2op	56116	55960.2	65.95	56127	55993.93	75.13	56215	55991.83	68.17	56108	55992.1	69.72
	50	rnd	56114	55947.03	86.19	56147	55923.97	84.33	56086	55908.3	84.58	55996	55914.43	64.7
51	20	rnd	56084	55951.9	50.51	56113	55976	52.47	56108	56018.67	51.3	56169	56006	68.87
		2op	56108	55933.53	89.43	56092	55926.57	82.01	56091	55914.23	75.41	56109	55929.4	102.67
	50	rnd	56161	55990.43	65.73	56085	55986.5	69.03	56100	55999.43	56.98	56145	56031.3	69.98
	20	rnd	56120	55946.63	82.67	56170	55908.63	89.4	56083	55945.7	60.2	56137	55959.2	78.54
		2op	56062	55962.17	46.28	56150	55969.33	55.09	56110	55985.3	60.84	56193	56018.17	69.68

Table A.1443: f_{1577_354} : transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56123	55919.67	87.96	56123	55919.67	87.96	56129	55913.2	84.72	56070	55951.27	71.9
		2op	56118	55981.7	73.73	56118	55981.7	73.73	56138	55954.27	101.76	56152	55987.17	97.54
	50	rnd	56195	55923.87	111.28	56195	55923.87	111.28	56103	55914.03	84.23	56053	55928.33	69.87
51	20	rnd	56122	55983	69.65	56122	55983	69.65	56096	55985.37	70.72	56109	55977.47	84.61
		2op	56193	55940.7	96.72	56193	55940.7	96.72	56091	55940.33	90.3	56061	55941.63	69.33
	50	rnd	56178	56018.9	75.05	56178	56018.9	75.05	56098	55946.43	92.29	56119	55991.17	62.32
	20	rnd	56062	55915.77	74.41	56062	55915.77	74.41	56074	55928.83	69.66	56115	55956.57	79.61
		2op	56110	55979.1	77.78	56110	55979.1	77.78	56139	55985.57	80.84	56139	55958.97	88.77

Table A.1444: f_{1577_354} : basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56143	55942.57	98.83	56139	55931.73	78.41	56100	55948.57	85.87	56075	55925.97	87.59
		2op	56091	55962.57	57.34	56186	55982.97	71.6	56204	56047.07	70.69	56143	56004.7	62.06
	50	rnd	56069	55937.1	100.55	56076	55938.93	75.2	56077	55947.6	69.34	56159	55938.77	86.67
51	20	rnd	56077	55945.03	76.71	56142	55983.93	52.84	56161	56008	73.97	56148	56003.23	74.02
		2op	56059	55947.2	70.21	56059	55947.2	70.21	56060	55940.7	70.49	56136	55945.4	84.8
	50	rnd	56098	55938.93	71.43	56058	55950.67	67.89	56159	56000.43	57.46	56187	56024.47	80.53
	20	rnd	56146	55944	88.23	56146	55942.13	75.78	56175	55940	97.49	56091	55929.03	98.32
		2op	56056	55938.6	59.05	56102	55981.33	57.37	56138	55995.97	76	56160	56019.53	95.26

Table A.1445: f_{1577_354} : transRRGA+IM – Suspected Optimal is 57373

A.6.3 Third Set of Results

Results With No Post Optimization and No Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47286	47054.33	124.55	47270	47048.3	111.16	47274	47274	0	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	47238	47043	117.89	47269	47055.97	111.47	47274	47272.03	10.77	47274	47274	0
51	20	rnd	47333	47143.93	103.26	47339	47150.37	103.67	47392	47139.23	123.14	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	47262	47118.77	97.81	47278	47119.33	113.72	47356	47144.17	126.42	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0

Table A.1446: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47334	47236.83	59.63	47343	47210.2	58.8	47394	47211.87	80.39	47344	47225.17	77.3
		2op	47377	47310.33	31.07	47359	47280.23	21.13	47274	47274	0	47274	47274	0
	50	rnd	47382	47256.4	75.48	47443	47298.73	64.56	47336	47210.73	75.7	47321	47177.3	66.83
51	20	rnd	47432	47335.73	32.2	47368	47312.17	35.04	47325	47275.7	9.31	47274	47274	0
		2op	47361	47247.9	72.95	47421	47325.27	48.51	47338	47207	70.03	47341	47208.73	87.12
	50	rnd	47395	47323.7	35.64	47412	47339.97	38.2	47365	47279.37	20.61	47274	47274	0
		2op	47356	47260.4	61.62	47444	47351.4	52.67	47386	47250.67	67.36	47359	47243.27	86.58
			47401	47329.33	30.68	47437	47375.93	26.36	47344	47276.33	12.78	47274	47274	0

Table A.1447: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47270	47088.13	102.88	47284	47078.87	131.36	47274	47274	0	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	47354	47059.07	131.45	47271	47086.77	126.83	47274	47253.6	67.1	47274	47274	0
51	20	rnd	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
		2op	47332	47124.53	85.24	47332	47125.33	87.53	47292	47149.57	78.18	47274	47274	0
	50	rnd	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
		2op	47278	47089.7	112.54	47286	47099.7	111.08	47358	47115.27	124.75	47274	47271.8	12.05
			47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0

Table A.1448: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47336	47235.77	67.08	47344	47244.27	65.01	47365	47205.9	76.91	47429	47206.93	96.41
		2op	47390	47327.87	35.71	47360	47283.57	22.98	47274	47274	0	47274	47274	0
	50	rnd	47448	47244.07	58.29	47416	47281.47	76.51	47345	47172.8	89.31	47310	47174.8	86.64
51	20	rnd	47350	47264.67	62.89	47421	47328.17	47.1	47340	47203.83	70.13	47356	47180.4	112.18
		2op	47393	47310.57	36.22	47426	47349.4	37.48	47357	47276.77	15.15	47274	47274	0
	50	rnd	47391	47269.67	59.19	47418	47359.2	39.3	47402	47257.5	66.53	47409	47242	77.51
		2op	47410	47331.2	38.92	47426	47383.47	21.45	47359	47283.93	22.75	47274	47274	0

Table A.1449: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47303	47117.63	89.14	47310	47111.4	92.22	47274	47265.97	44	47274	47274	0
		2op	47348	47276.47	13.51	47348	47276.47	13.51	47274	47274	0	47274	47274	0
	50	rnd	47369	47160.63	109.99	47369	47160.07	110.67	47274	47252.83	55.15	47274	47274	0
51	20	rnd	47350	47240.8	58.03	47383	47240	61.26	47419	47229.07	92.89	47274	47274	0
		2op	47378	47306.5	36	47378	47306.5	36	47274	47274	0	47274	47274	0
	50	rnd	47380	47279.9	56.94	47380	47277.53	53.72	47367	47186.63	76.51	47274	47274	0
		2op	47436	47309.4	49.57	47436	47308.97	49.56	47274	47274	0	47274	47274	0

Table A.1450: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47325	47239.33	54.97	47355	47233.57	61.29	47354	47209.63	74.77	47362	47197.83	71.68
		2op	47419	47334.47	33.29	47386	47304.3	35.98	47274	47274	0	47274	47274	0
	50	rnd	47371	47272.67	47.8	47383	47251.07	61.45	47328	47223.47	65.37	47330	47211.03	88.71
51	20	rnd	47423	47348.5	33.52	47401	47320.07	36.49	47274	47274	0	47274	47274	0
		2op	47324	47244.9	51.22	47387	47250	58.52	47320	47189.03	66.29	47399	47213.5	87.51
	50	rnd	47388	47343.17	25.8	47388	47339.67	26.48	47313	47275.3	7.12	47274	47274	0
		2op	47386	47299.27	40.3	47385	47266	64.75	47367	47245.07	70.29	47304	47183.93	91.43
		2op	47396	47356.7	18.47	47395	47317.7	36.13	47290	47274.53	2.92	47274	47274	0

Table A.1451: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151224	150900.67	352	151256	151153.53	19.35	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151210	150940.8	284.93	151249	151037.9	283.29	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151244	150961.13	315.84	151249	150890.43	369.07	151150	151147.2	15.34	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151254	151059.1	231.88	151295	151061.53	238.86	151227	151117.5	117.12	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1452: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151322	151152.63	125.35	151271	151147.33	116.02	151231	151110.33	160.91	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151254	151169.1	51.02	151291	151166.2	60.73	151255	151124.43	146.59	151171	151150.7	3.83
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151279	151120.77	125.61	151216	151149.03	53.11	151291	151149.17	112.13	151228	151151.3	21.59
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151249	151138.93	45.97	151229	151160.2	48.91	151279	151161.67	53.54	151215	151086.2	177.9
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1453: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151275	151065.8	202.88	151245	151128.6	108.42	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151220	150989.1	280.14	151267	151039.07	309.08	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151280	151023.7	289.64	151306	151071	235.96	151170	151129.17	117.94	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151233	151026.97	219.88	151237	151033.77	277.53	151172	151046.43	256.19	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1454: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151288	151139.57	118.36	151260	151139.43	113.88	151220	151145.6	28.64	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151272	151151.3	47.2	151237	151156.8	51.07	151226	151121.77	149.72	151150	151149.8	1.1
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151262	151142.3	117.27	151293	151153.13	64.68	151229	151087.33	184.83	151259	151153	34.39
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151236	151140.43	47.58	151249	151160.63	43.71	151273	151173.67	47.23	151223	151125.5	110.01
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1455: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151265	151105.13	188.01	151255	151095.3	202.53	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151266	151068.93	288.32	151227	150968.7	306.24	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151290	151109.23	210.85	151290	151112.23	210.97	151249	151105.17	170.81	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151228	151081.07	207.51	151235	151076.93	207.62	151266	151093.37	218.88	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1456: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151241	151159.63	44.85	151263	151159.03	49.54	151228	151133.9	107.77	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151266	151165.7	46.99	151217	151126.1	104.71	151297	151119.27	178.83	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151240	151146.23	49.16	151245	151157.07	45.82	151256	151169.07	57.18	151150	151149.27	4.02
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151299	151167.47	51.98	151259	151159.23	58.32	151222	151151.7	43.52	151295	151147.47	38.1
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1457: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167083	166465.67	294.78	166879	166513.23	271.97	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166980	166376	300.81	166903	166410.9	325.13	166520	166520	0	166520	166520	0
51	20	rnd	167096	166520.43	344.98	166930	166509.13	287.68	166880	166536.73	153.41	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166921	166497.47	320.52	166768	166518.6	227.41	166911	166501.33	291.39	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1458: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167325	166955.17	205.51	167284	166868.83	248.66	167320	166836.37	259.86	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167309	166967.6	176.45	167416	167042.27	237.21	167304	166918.57	180.5	167256	166586.87	187.24
51	20	rnd	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167332	166960.43	228.42	167331	167031.3	182.67	167335	166817.03	263.63	167127	166653.47	228.62
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1459: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166930	166544.23	300.66	166749	166470.63	256.37	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166976	166466.13	344.2	166876	166408	317.92	166520	166520	0	166520	166520	0
51	20	rnd	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166952	166532.33	267.19	166967	166482.87	267.92	166751	166491.67	152.46	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1460: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167387	166917.97	218.43	167216	166874.57	199.53	167287	166731.03	229.52	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167403	166940.03	232.47	167337	166942.97	216.17	167350	166823.83	198.99	167018	166578.4	143.63
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167395	166992.37	185.38	167318	167002.63	203.72	167292	166878.47	208.76	167126	166740	227.78
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167314	166955.27	193.81	167404	167183.33	141.43	167284	166907.6	217.01	167156	166867.97	194.35
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1461: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166934	166528.37	295.43	166921	166517.4	318.91	166773	166526.6	49.18	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167029	166545.23	326.64	166862	166544.97	217.39	166929	166544.03	81.85	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167068	166723.37	199.72	167124	166727.47	199.16	167149	166739.63	193.94	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167016	166713.73	187.05	167016	166715.1	187.35	166922	166696.03	179.51	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1462: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167318	167006.8	203.65	167301	166973.4	193.54	167368	166960.43	219.45	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167360	167025	183.2	167395	167012.03	227	167321	166876.83	170.75	166815	166529.83	53.86
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167330	167008.57	155.69	167315	167009.43	169.14	167234	166925.63	200.5	166974	166549.3	111.57
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167373	167032.73	199.07	167413	167015.2	192.34	167363	166940.4	227.5	167245	166841.43	222.73
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1463: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163097	162964.47	81.77	163080	162929.63	89.01	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163171	162939.33	118.26	163114	162934.1	84.08	163089	162980.57	50.75	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163106	162983.1	75.81	163120	162955.2	111.5	163086	162917.43	101.17	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163129	162970.5	111.37	163141	162953.2	108.07	163177	162928.1	105.23	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.1464: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163162	162964	82.69	163168	162983	90.22	163195	162993.23	89.87	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163191	162980.97	85.15	163085	162956.7	69.52	163112	162984.5	79.44	163118	162973.13	71.26
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163151	162984.43	88.72	163150	163015.8	69.48	163093	162972.6	73.01	163182	162988.37	71.15
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163078	162971.73	65.78	163073	162981.23	66.59	163126	162949.43	92.28	163120	162980.43	70.72
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.1465: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163070	162932.63	94.57	163100	162920.9	117.33	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163067	162925.13	113.67	163068	162937.23	102.08	163082	162960.2	81.58	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163120	162971.23	65.97	163085	162952.1	71.66	163092	162950.57	71.54	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163124	162945.23	109.16	163167	162943.3	86.03	163075	162940.57	108.62	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.1466: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163148	162965.5	68.67	163119	162971.9	75.51	163068	162973.47	45.34	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163098	162965.7	64.09	163095	162948	70.81	163100	162993.53	71.77	163083	162990.17	29.74
51	20	rnd	163099	162990.73	76.52	163182	162995.73	73.74	163133	162968.67	70.55	163083	162969.97	56.31
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163155	162973.47	112.53	163103	162966.57	94.87	163093	162941.97	80.95	163116	162976.83	80.34
	20	rnd	163148	162965.5	68.67	163119	162971.9	75.51	163068	162973.47	45.34	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163098	162965.7	64.09	163095	162948	70.81	163100	162993.53	71.77	163083	162990.17	29.74

Table A.1467: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163047	162938.13	99.39	163116	162950.73	91.84	163056	162912.03	86.1	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163075	162970.9	64.49	163101	162944.57	78.29	163081	162948.13	78.24	162988	162988	0
51	20	rnd	163043	162914.07	85.06	163043	162914.07	85.06	163047	162929.43	100.07	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163150	162967.63	89	163150	162967.63	89	163144	162920.8	93.27	162995	162986.37	10.35
	20	rnd	163047	162938.13	99.39	163116	162950.73	91.84	163056	162912.03	86.1	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163075	162970.9	64.49	163101	162944.57	78.29	163081	162948.13	78.24	162988	162988	0

Table A.1468: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163134	162978.3	80.52	163117	162984.67	79.61	163118	162947.5	78.29	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163124	162973.1	87.98	163093	162997.8	56.61	163144	162984.17	77.96	163065	162961.67	114.09
51	20	rnd	163161	162984.13	75.67	163133	162975.77	66.1	163154	162991.3	82.11	163104	162981.7	36.81
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163118	162985.87	71.3	163108	162979.93	91.08	163143	162997.37	64.08	163177	162976.97	111.1
	20	rnd	163134	162978.3	80.52	163117	162984.67	79.61	163118	162947.5	78.29	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163124	162973.1	87.98	163093	162997.8	56.61	163144	162984.17	77.96	163065	162961.67	114.09

Table A.1469: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179812	179677.5	88.01	179815	179690.97	76.49	179607	179607	0	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
		50	179878	179699.8	92.46	179860	179671.17	101.55	179839	179625.2	78.25	179607	179607	0
51	20	rnd	179922	179737.67	99.98	179841	179684.13	97.48	179856	179686.1	79.61	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
		50	179874	179707.1	86.07	179970	179709.27	120.48	179901	179686.87	90.38	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.1470: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179884	179702.27	91.18	179868	179681.67	88.27	179865	179629.23	78.58	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
		50	179973	179737.87	97.25	179892	179717.17	94.65	179862	179682.43	102.86	179822	179620.43	44.13
51	20	rnd	179881	179721.77	85.33	179893	179678.23	111.08	179921	179699.43	100.01	179866	179653	86.12
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
		50	179846	179703.67	74.2	179961	179702.6	121.55	179869	179711.2	73.49	179975	179703.97	96.23
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.1471: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179843	179698.07	83.7	179907	179688.4	91.56	179607	179607	0	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
		50	179870	179732.7	74.4	179892	179698.73	85	179872	179655.6	71.1	179607	179607	0
51	20	rnd	179927	179724.2	85.27	179900	179686.1	111.9	179888	179681.8	86.82	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
		50	179833	179681.07	92.49	179848	179702.13	84.07	179920	179682.33	85.62	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.1472: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179865	179702.3	101.36	179891	179687.47	96.02	179937	179673.83	102.83	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179885	179702.5	87.81	179920	179702.07	87.97	179898	179707.27	87.84	179734	179615.7	53.58
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179913	179738.73	87.62	179952	179730.4	92.83	180023	179712.1	102.42	179785	179645.03	55.96
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179949	179706.1	104.97	179836	179674.03	89.98	179931	179711.4	82.88	179932	179705.83	98.77
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.1473: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179816	179685.17	86.78	179882	179677.47	89.57	179828	179676.57	87.56	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179901	179693.7	103.67	179958	179710.83	110.59	179872	179665.33	94.3	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179879	179695.03	85.52	179879	179695.03	85.52	179858	179678.13	98.57	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179916	179710.17	93.31	179916	179710.17	93.31	179827	179686.13	90.2	179642	179609.13	8.16
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.1474: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179831	179719	80.84	179996	179707.37	90.83	179910	179710.17	85.27	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179854	179739.67	62.47	179911	179696.83	124.46	179854	179703.67	89.17	179759	179612.07	27.75
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179843	179709.4	89.13	179841	179686.77	81.47	179959	179708.97	82.57	179733	179613.83	26.73
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179845	179687.6	85.28	179877	179694.7	102.34	179952	179712.87	103.4	179879	179657.97	76.54
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.1475: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343090	342627.93	408.14	342763	342763	0	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343130	342584.93	446.18	342835	342694.9	241.36	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343107	342631.63	402.65	343032	342629.67	374.91	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342996	342643.97	288.44	343092	342626.77	384.89	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1476: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343123	342867.97	134.26	343158	342851.93	215.75	343012	342805.37	114.07	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343171	342878.6	134.05	343131	342833.07	243.58	343099	342755.8	290.48	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343011	342846	122.13	343203	342882.63	168.5	343022	342814.7	173.26	342915	342771.93	34.32
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343120	342896.7	96.94	343118	342872.3	137.17	343084	342881.3	179.5	343110	342726.5	234.13
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1477: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343093	342585.37	392.07	342763	342763	0	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343091	342580.7	393.26	342861	342717.93	190.04	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343064	342596.8	428.76	343168	342543.17	452.8	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343111	342806	235.38	343034	342764.27	252.67	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1478: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343109	342870	117.2	343163	342796.17	306.15	343051	342799.57	106.84	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343100	342903.2	107.83	343049	342828.03	216.63	343173	342797.07	225.63	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343049	342871.6	102.32	343156	342873.77	154.27	343126	342818.87	208.11	343007	342786.9	66
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343181	342884.13	133.46	343066	342787.4	276.02	343136	342845.23	256.17	343090	342820	223.44
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1479: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343140	342504.6	458.31	343140	342511.6	464.4	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342994	342546.4	432.62	342994	342524.03	428.31	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343079	342748.17	305.22	343079	342748.17	305.22	343067	342714.33	229.44	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343074	342683	321.63	343074	342683	321.63	343073	342567.6	373.35	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1480: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343125	342898.8	104.66	343129	342886.23	152.23	343091	342732.27	283.51	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343147	342945.97	91.11	343169	342926.93	94.31	343118	342760.43	244.79	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343118	342905	141.81	343092	342881.43	154.54	343208	342836.2	264.59	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343114	342874.8	108.34	343126	342884.17	100.63	343089	342893.83	133.37	342936	342760.27	70.6
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1481: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226996	225497.37	835.16	226232	225417.97	617.72	226732	225243.57	791.22	226468	225211	738.34
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	227264	225345.53	793.51	226685	225411.77	681.01	226798	225190.73	780.58	227269	225514.2	941.39
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
51	20	rnd	226415	225618.3	500.43	226633	225497.7	739.51	226681	225059.1	878.83	226622	225269.9	790.65
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226770	225514.73	617.17	227096	225392.13	817.39	226665	225187.33	666.87	226606	225125.97	887.35
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0

Table A.1482: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226296	225329.73	619.6	226756	225277.67	872.24	226217	224996.4	643.26	226451	225242.47	790.03
		2op	226441	225774.8	242.66	226609	225641.97	234.7	225517	225517	0	225517	225517	0
	50	rnd	226932	225215.7	771.87	226336	225250.4	609.76	226616	225263.7	622.15	227086	225248.2	898.4
		2op	226528	225834.6	271.25	226281	225742.1	263.19	225517	225517	0	225517	225517	0
51	20	rnd	226744	225190.67	767.78	226600	225439.83	562.98	226529	225162.73	705.32	226476	225048.53	676.18
		2op	226364	225836.73	306.83	226698	226099.2	380.08	226370	225602.6	228.94	225517	225517	0
	50	rnd	226584	225207.37	861.09	227555	225759.9	756.35	226510	225342.33	813.17	226693	225005.33	850.79
		2op	226768	225873.07	371.28	226641	226244.7	186.53	226537	225603.17	283.54	225517	225517	0

Table A.1483: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226800	225637.37	683.45	226883	225426.57	684.01	226884	225486.57	681.11	226456	225038.6	690.35
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226436	225362.17	671.57	226792	225280.23	848.65	226874	225221.33	865.92	226134	225097.23	671.09
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
51	20	rnd	226995	225515.9	767.23	226910	225464.63	742.02	227383	225321.47	647.89	226387	224877.07	969.09
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226858	225455.57	728.53	226335	225388.67	572.2	226785	225252.7	838.63	226633	225154.33	873.97
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0

Table A.1484: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226793	225313.53	805.16	226537	225144.47	816.79	227010	225286.23	869.92	226654	225032	824.1
		2op	226736	225965.2	299.68	226291	225699.17	261.06	225517	225517	0	225517	225517	0
	50	rnd	226699	225451.57	574.69	226609	225275.63	691.19	227570	225494.2	831.67	226312	224948.63	929.61
51	20	rnd	226844	225922.67	309.08	226879	225814.17	374.21	226233	225540.87	130.72	225517	225517	0
		2op	226863	225347.17	833.82	226558	225359.03	618.29	227135	225112.07	734.83	226609	224999.33	851.49
	50	rnd	226660	225842.03	314.48	226701	226033.53	311.15	226840	225565.07	241.63	225517	225517	0
	20	rnd	226840	225192.43	921.39	226783	225535.03	716.52	226733	225265.77	808.51	226723	225197.03	752.23
		2op	226374	225853.93	267.68	226618	226256.5	205.94	226512	225700.3	301.05	225517	225517	0

Table A.1485: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226411	225509.9	611.81	227184	225360.33	701.71	226376	225252.13	637.37	226380	225086.17	767.64
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226950	225330.77	803.07	226046	225025.4	598.59	226885	225224.7	760.07	226501	225059.43	923.67
51	20	rnd	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
		2op	227217	225467.53	834.74	226745	225401.1	776.12	226836	225393.53	683.59	226772	225165.97	702.34
	50	rnd	226912	225777.37	370.32	226912	225777.37	370.32	225517	225517	0	225517	225517	0
	20	rnd	227024	225473.5	707.77	226451	225443.43	682.58	226708	225196.6	763.07	226709	225336.23	651.35
		2op	226586	225661.63	295.9	226586	225661.63	295.9	225517	225517	0	225517	225517	0

Table A.1486: *bx842596_4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226670	225323.13	860.68	226561	225288.2	816.76	226664	225134.2	705.25	226698	224937.13	928.79
		2op	226752	226010.37	339.07	226691	225896.3	386.8	225517	225517	0	225517	225517	0
	50	rnd	226916	225413	729.3	227024	225261.3	920.02	226991	225203.4	759.85	226308	225023.83	788.33
51	20	rnd	226297	225966.2	275.88	226849	226042.2	312.86	225517	225517	0	225517	225517	0
		2op	226836	225274.57	935.65	226573	225471.07	666.99	226484	225227.07	726.26	226480	225165.97	649.12
	50	rnd	226887	226124.1	304.88	226887	226153.33	304.63	226601	225646.73	285.36	225517	225517	0
	20	rnd	227383	225419.07	645.27	226449	225137.43	781.93	226318	224978.53	800.06	226531	225310.23	714.46
		2op	226430	226017.17	244.35	226448	226060.43	229.55	226181	225645.5	235.23	225517	225517	0

Table A.1487: *bx842596_4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441145	438926.53	1276.86	440158	438691.07	1047.55	440394	438436.23	1329.59	440646	438355.07	1545.38
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	442381	439450.37	1290.37	440344	438574.67	1034.78	440614	438473.77	1252.12	440874	438311.43	1338.47
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
51	20	rnd	440865	438524.87	1238.74	440406	438849.27	1044.33	440790	438350.3	1011.71	440361	438273.67	1262.72
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	440822	438747.67	1114.99	441795	439248.7	1163.72	440309	438738.37	1125.23	440197	438220.8	1002.45
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0

Table A.1488: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441014	438824.6	1314.49	441469	438682.77	1322.35	442079	438477.23	1231.64	441312	438675.77	1234.51
		2op	438680	437927.93	433.41	438642	437497	284.6	437398	437398	0	437398	437398	0
	50	rnd	441085	438438.37	1252.42	440537	438505.73	1140.14	440555	438831.67	1175.19	440145	438339.8	1030.8
		2op	438887	437804.13	392.25	438278	437560.6	288.92	437398	437398	0	437398	437398	0
51	20	rnd	440731	438362.63	1176.61	440499	438079.4	1247.25	440297	438566.77	1277.91	440544	438110.77	1305.49
		2op	438645	437792.5	389.28	438735	437604.47	363.02	437775	437410.57	68.83	437398	437398	0
	50	rnd	440822	438406.33	1249.22	441543	438774.73	1314.33	440917	438665.67	1117.45	441191	438825.5	1259.97
		2op	438528	437958.2	323.58	439035	437908	432.21	438297	437455.4	218.67	437398	437398	0

Table A.1489: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441097	438985.7	1086.28	440595	438590.1	1274.51	440863	438490.27	1225.79	440676	438381.8	1197.4
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	440779	438685.47	1240.31	441734	438654.8	1232	440772	438543.47	1177.38	440469	438434.07	989.61
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
51	20	rnd	440729	438986.47	1084.19	441130	438775.23	1305.78	441451	438822.17	1403.64	440889	438600.53	1244.5
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	441958	439020.67	1078.66	441393	439279.3	1106.29	441119	438669.53	1252.27	440396	438418.2	1077.26
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0

Table A.1490: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441351	438828.1	1031.43	440984	438462.73	1328.98	440118	437911.5	1366.12	440021	438344.5	1234.66
		2op	438989	438003.1	485.69	438417	437454.47	219.59	437398	437398	0	437398	437398	0
	50	rnd	441252	438692.67	1253.05	441680	438706.9	1291.15	441063	438393.83	1376.42	440051	437912.63	1163.38
51	20	rnd	439074	438079.83	436.14	438971	437554.67	387.13	437398	437398	0	437398	437398	0
		2op	442088	438672.2	1317.82	440565	438489.8	1276.82	440377	438133.6	1144.97	440247	437981.77	1429.8
	50	rnd	438597	437791.17	400.48	439467	437722.03	523.27	438357	437429.97	175.09	437398	437398	0
	20	rnd	441849	438878.13	1136.61	441314	438575	1309.44	441200	438685.43	1103.84	439938	437871.27	1325.81
		2op	438758	437926.5	328.82	438527	437633.43	343.87	437825	437412.23	77.96	437398	437398	0

Table A.1491: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441453	439012.43	1283.58	441181	439192.07	1288.63	441532	438532.9	1635.93	441010	438329.03	1551.12
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	441049	438757.53	1158.59	441049	438776.97	1087.1	440169	438402.27	1285.38	440042	438236.13	1041.71
51	20	rnd	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
		2op	440953	439207.93	930.92	440953	439207.93	930.92	441367	438379.4	1543.8	440312	438623.57	1300.69
	50	rnd	439393	437552.43	482.47	439393	437551.2	479.58	437398	437398	0	437398	437398	0
	20	rnd	441453	438942.07	1268.76	441453	438935.97	1271.51	441712	439081.93	1128.11	440590	438385.07	1244.08
		2op	439642	437609	645.91	439642	437609	645.91	437398	437398	0	437398	437398	0

Table A.1492: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440597	438487.07	1306.17	440494	438747.6	953.44	441978	438503.93	1117.13	440304	437982.37	1291.64
		2op	438768	437976.2	344.48	438481	437766.43	354.97	437398	437398	0	437398	437398	0
	50	rnd	441123	438910.97	1230.14	441008	438559.3	1623.49	441365	438503.73	1436.87	441129	438344.37	1304.22
51	20	rnd	438834	438131.67	375.11	438533	437941.87	354.06	437398	437398	0	437398	437398	0
		2op	441005	438841.33	1171.53	440943	438908.03	1195.27	440925	438564.8	1339.94	440166	438301.8	929.55
	50	rnd	439298	438002.8	377.98	438664	437914.47	300.55	437398	437398	0	437398	437398	0
	20	rnd	440755	438859.37	1139.77	441177	438756.97	1336.87	441429	438652.9	1323.64	440472	438328.1	1180.34
		2op	438806	438054.67	297.85	439018	437999.33	362.96	438193	437440	165.61	437398	437398	0

Table A.1493: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115741	114802.93	434.43	115993	114811.83	506.51	115744	114827.03	664.09	115808	114876.57	555.67
		2op	115851	115525.23	61.53	115514	115514	0	115514	115514	0	115514	115514	0
	50	rnd	115994	115026.07	562.12	115873	115188.57	458.97	116177	114914.37	609.54	115754	114670.17	543.26
51	20	rnd	115833	114958.93	501.25	115851	114896.1	414.29	115725	114907.03	580.6	115753	114843.43	563.73
		2op	115782	115531.37	65.73	115782	115522.93	48.93	115514	115514	0	115514	115514	0
	50	rnd	115952	114948.67	541.85	116124	114938.4	570.57	115735	114860.03	496.8	115490	114664.33	445.38
		2op	115514	115513.97	0.18	115514	115514	0	115514	115514	0	115514	115514	0

Table A.1494: $j02459_7$: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115917	114918.3	481.62	115553	114715.73	445.84	116248	114811.33	564.26	115420	114584.37	517.36
		2op	116365	115564.8	225.76	115830	115493.97	152.17	115514	115514	0	115514	115514	0
	50	rnd	115603	114859.8	431.09	115839	114811.4	444.03	115768	114885.97	514.85	115601	114849.4	560.44
51	20	rnd	115767	115481.73	185.11	116071	115560.57	198.34	115547	115501.8	72.39	115514	115514	0
		2op	116000	114790.33	655.39	115898	115072.8	497.57	115619	114677.83	470.52	115930	114819.53	502.83
	50	rnd	115713	115468.37	136.69	115928	115600	172.99	115633	115418.7	144.62	115514	115514	0
		2op	115724	114903.17	436.63	115750	115067.27	484.54	115773	114882.5	495.34	115717	114705.07	560.4
		2op	115840	115531.83	153.85	116428	115778.17	230.98	115858	115510.37	147.86	115514	115514	0

Table A.1495: $j02459_7$: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115817	115065.97	514.33	115626	114797.73	527.07	115976	114843.4	494.71	115737	114668.2	426.4
		2op	115514	115514	0	115514	115514	0	115514	115514	0	115514	115514	0
	50	rnd	115839	115173.83	459.92	115614	114912.83	433.06	115983	114694.33	569.27	115778	114784.53	549.5
51	20	rnd	115514	115514	0	115514	115514	0	115514	115514	0	115514	115514	0
		2op	116009	115007.27	459.63	115725	114904.6	558.44	115956	115033.4	587.18	115713	114743.93	547.53
	50	rnd	115550	115515.2	6.57	115514	115514	0	115514	115514	0	115514	115514	0
		2op	116139	114968.4	547.84	116308	115073.63	551.94	116026	115037.17	433.96	115847	114729.2	467.54
		2op	115864	115525.67	63.9	115514	115514	0	115514	115514	0	115514	115514	0

Table A.1496: $j02459_7$: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115811	114937.5	510.76	115836	114970.7	511.24	115774	114999.83	392.1	115283	114585.63	557.15
		2op	115727	115530.77	143.44	115690	115493.7	110.76	115514	115510.53	18.99	115514	115514	0
	50	rnd	115753	114848.13	462.19	115620	114942.07	499.28	115742	114609.97	492.58	115724	114705.97	525.73
51	20	2op	116072	115514.23	215.04	116064	115575.1	239.85	115670	115509.27	79.91	115514	115514	0
		rnd	115955	114931.07	601.45	115910	115013.43	499.42	115649	114781.63	513.83	116175	114743.03	640.99
	50	2op	115933	115508.57	189.46	116426	115738.27	271.43	115656	115495.93	106.55	115514	115514	0
	20	rnd	115968	114973.07	527.38	115737	115012.03	411.55	116040	114905.33	558.37	115851	114823.7	513.33
		2op	116078	115479.4	202.52	116454	115818.03	166.47	116023	115505.5	161.05	115514	115514	0

Table A.1497: *j02459_7*: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115844	114901.07	501.28	116085	115069.4	528.89	115682	114727.33	433.13	115682	114816.4	533.12
		2op	116239	115558.83	194.23	116026	115538.33	124.07	115514	115514	0	115514	115514	0
	50	rnd	115434	114801.77	393.24	115661	114875.3	481.56	115645	114961.23	392.1	115617	114781.03	453.88
51	20	2op	115848	115506.4	110.82	115649	115494.87	90.49	115514	115514	0	115514	115514	0
		rnd	116044	115152.37	437.65	116044	115091.07	399.79	115990	115012.53	501.07	115913	114669.37	709.08
	50	2op	116134	115485.87	251.16	116134	115479.47	256.84	115514	115514	0	115514	115514	0
	20	rnd	116111	115202.03	362.18	116111	115299.53	456.66	116207	115136.37	599.75	116174	114855.43	727.06
		2op	116442	115807.07	319.16	116442	115809.77	316.2	115514	115514	0	115514	115514	0

Table A.1498: *j02459_7*: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115915	114972.43	353.07	116164	114955.8	550.39	115381	114658.13	463.67	115460	114632.77	620.94
		2op	116352	115534.27	225.4	115749	115476.53	130.94	115514	115514	0	115514	115514	0
	50	rnd	115807	114912.8	427.6	116007	114704.57	594.17	115831	114763.43	480.57	115837	114792.47	608.15
51	20	2op	115751	115519.03	185.47	116004	115518.43	193.99	115514	115510.93	11.72	115514	115514	0
		rnd	116096	114981.43	498.03	116063	115033.5	531.99	115421	114758.13	460.77	115856	114623.7	539.41
	50	2op	115828	115516.07	177.86	116406	115533.2	235.96	116077	115472.97	181.82	115514	115514	0
	20	rnd	115832	114861.87	624.03	115758	114986.43	584.54	115592	114672.47	523.24	115604	114842.9	548.75
		2op	116091	115565.77	219.41	115771	115476.97	152.15	115645	115489.93	82.64	115514	115514	0

Table A.1499: *j02459_7*: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38534	38280.97	159	38522	38256.27	153.44	38593	38210	160.23	38526	38147.33	234.82
		2op	38408	38236.07	45.93	38389	38229.5	30.12	38224	38224	0	38224	38224	0
	50	rnd	38578	38297.57	167.63	38618	38260.77	230.09	38548	38232.3	196.14	38534	38166.03	215.66
51	20	rnd	38415	38237.8	44.39	38414	38232.2	35.82	38224	38224	0	38224	38224	0
		2op	38496	38198.1	214.13	38617	38255.03	181.54	38591	38270	204.43	38586	38250.1	226.13
	50	rnd	38432	38278.6	85.69	38437	38338.2	84.25	38417	38230.43	35.24	38224	38224	0
	20	rnd	38567	38279.5	196.77	38623	38306.1	173.98	38613	38303.7	191.69	38638	38231.23	194.55
		2op	38440	38315.8	90.67	38437	38343.63	84.3	38407	38235.13	42.58	38224	38224	0

Table A.1500: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38534	38263.27	164.69	38584	38301.7	176.75	38581	38262.77	239.46	38531	38211.8	225.03
		2op	38414	38360	69.32	38437	38412.53	10.41	38557	38305.23	109.24	38224	38224	0
	50	rnd	38559	38250.97	185.62	38577	38309.07	210.88	38580	38205.03	241.48	38588	38197.73	176.85
51	20	rnd	38414	38390.2	45.46	38442	38427.03	14.23	38524	38403.97	34.31	38224	38224	0
		2op	38566	38288.63	188.88	38594	38363.03	155.36	38614	38301.77	160.05	38580	38151.07	275.96
	50	rnd	38434	38389.43	51.21	38442	38429.83	12.68	38418	38404.1	10.34	38409	38259.93	73.25
	20	rnd	38681	38276.1	210.68	38661	38394.9	190.05	38677	38314.5	181.94	38542	38230.4	201.89
		2op	38426	38387.37	50.29	38442	38437.5	8.9	38529	38416.47	24.29	38519	38324.87	92.83

Table A.1501: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38584	38249.13	199.44	38570	38262.9	191.95	38664	38205.2	221.54	38537	38174.77	228.22
		2op	38224	38224	0	38224	38224	0	38224	38224	0	38224	38224	0
	50	rnd	38432	38164.63	185.73	38580	38264.8	208.7	38527	38260.43	181.29	38518	38177.9	242.61
51	20	rnd	38224	38224	0	38445	38231.37	40.35	38224	38224	0	38224	38224	0
		2op	38612	38243.87	209.14	38567	38272.1	196.72	38462	38174.57	204.65	38546	38122.67	249.77
	50	rnd	38424	38314	85.05	38436	38333.8	83.58	38419	38230.5	35.6	38224	38224	0
	20	rnd	38567	38262.43	153.91	38546	38263.7	211.35	38590	38209.23	181.78	38492	38210.7	199.32
		2op	38445	38287.1	88.31	38504	38360.03	74.08	38417	38244.07	54.19	38224	38224	0

Table A.1502: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38663	38316.23	192.58	38661	38364.23	172.46	38567	38128.57	284.16	38686	38216.17	224.51
		2op	38434	38377.47	65.23	38442	38416.4	14.12	38441	38271.2	80.57	38224	38224	0
	50	rnd	38509	38212.4	204.96	38674	38363.43	193.51	38563	38250.23	221.46	38619	38200.03	248.5
51	20	rnd	38413	38375.33	62.31	38442	38421.4	13.87	38524	38403.97	31.39	38224	38224	0
		2op	38631	38287.13	221.77	38613	38346.9	186.92	38567	38273.4	156.8	38486	38199.9	182.12
	50	rnd	38441	38395.97	47.5	38442	38425.33	13.24	38432	38408.77	12.59	38411	38253.03	66.24
	20	rnd	38662	38229.23	234.61	38608	38341.03	163.49	38625	38298.17	169.77	38633	38182	226.91
		2op	38414	38384.17	55.19	38442	38433.6	11.09	38437	38416.43	13.78	38530	38312.9	101.16

Table A.1503: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38642	38329.5	179.93	38575	38328.43	160.16	38663	38206.67	240.09	38655	38185.2	221.33
		2op	38442	38374.73	72.75	38438	38364.67	75.61	38224	38224	0	38224	38224	0
	50	rnd	38629	38307.9	161.68	38612	38340.97	178.63	38626	38201.47	211.23	38626	38210.33	195.38
51	20	rnd	38437	38362.43	81.93	38437	38351.5	86.1	38224	38224	0	38224	38224	0
		2op	38573	38321.5	156.83	38636	38312.2	170.84	38652	38247.67	180.55	38573	38214.4	188.94
	50	rnd	38442	38423.87	13.18	38442	38441.67	1.27	38451	38331.27	90.72	38224	38224	0
	20	rnd	38572	38330.3	174.44	38651	38330.07	184.03	38515	38207.03	211.39	38491	38106.53	239.65
		2op	38442	38434.67	10.73	38442	38438.33	6.35	38418	38312.43	90.26	38224	38224	0

Table A.1504: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38679	38298.1	181.69	38585	38268.73	209.46	38634	38133.4	235.3	38612	38185.97	238.01
		2op	38414	38406.23	6.38	38418	38405.03	7.99	38436	38296.5	90.8	38224	38224	0
	50	rnd	38695	38352.03	179.8	38604	38274.83	210.02	38535	38190.33	195.05	38571	38214.37	238.86
51	20	rnd	38429	38409.8	4	38422	38408.3	3.46	38427	38333.67	85.76	38224	38224	0
		2op	38574	38298.17	176.22	38579	38307.77	176.87	38660	38235.93	245.39	38553	38152.83	229.71
	50	rnd	38437	38413.83	10.78	38439	38415.73	11.34	38432	38397.73	20.21	38224	38224	0
	20	rnd	38528	38289.53	188.74	38608	38371.3	137.79	38566	38204.7	222.86	38687	38171.97	260.43
		2op	38437	38411.17	5.99	38437	38409.2	6.55	38427	38388.03	46.44	38432	38247.33	61.02

Table A.1505: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47921	47591.57	225.83	47846	47537.33	229.16	47961	47547.23	337.94	47899	47546.2	261.82
		2op	47349	47349	0	47349	47349	0	47349	47349	0	47349	47349	0
	50	rnd	48034	47613.93	270.9	47894	47522.63	265.52	47917	47464	316.18	47862	47600.7	190.43
		2op	47731	47380.13	100.29	47369	47349.67	3.65	47349	47349	0	47349	47349	0
51	20	rnd	47870	47563.2	227.21	47843	47546.53	290.98	47905	47584.07	210.88	48023	47503.47	271.02
		2op	47830	47504.63	186.92	47830	47508.97	173.68	47349	47349	0	47349	47349	0
	50	rnd	47948	47606.5	186.03	47897	47605.77	202.97	47998	47554.73	238.16	47849	47528.27	252.6
		2op	47755	47399.97	133.76	47814	47555.93	171.34	47545	47355.53	35.78	47349	47349	0

Table A.1506: *m15421_6*: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47886	47627.43	205.51	47947	47557.77	243.23	47899	47566	282.66	47846	47431.87	287.17
		2op	47758	47515.73	153.01	47758	47739.73	51.74	47426	47352.83	15.46	47349	47349	0
	50	rnd	48052	47560.77	276.45	47976	47572.4	299.52	47851	47536.87	224.02	47939	47515.83	257.85
		2op	47758	47494.97	161.7	47758	47756.7	3.22	47755	47415.53	130.39	47349	47349	0
51	20	rnd	47934	47517.57	303.16	47977	47670.13	205.43	47947	47550.57	309.81	47939	47512.67	305.14
		2op	47758	47522.5	158.02	47758	47757.33	1.21	47758	47604.5	149.91	47349	47349	0
	50	rnd	47863	47464.67	270.3	47943	47570.87	267.12	47953	47602	227.14	47833	47483.07	236.01
		2op	47758	47463.83	123.94	47758	47756.8	1.49	47758	47729.23	59.05	47440	47352.03	16.61

Table A.1507: *m15421_6*: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48021	47635.27	187.35	47909	47630.5	225.44	47862	47579.8	254.74	47943	47560.4	313.84
		2op	47349	47349	0	47349	47349	0	47349	47349	0	47349	47349	0
	50	rnd	47934	47542.97	253.67	47961	47605.63	234.32	48002	47575.93	260.72	48027	47545.97	262.63
		2op	47413	47351.13	11.68	47386	47350.23	6.76	47349	47349	0	47349	47349	0
51	20	rnd	47933	47547.53	242.43	47868	47557.57	205.39	47923	47611.33	235.31	47866	47553.37	174.66
		2op	47755	47427.67	132.01	47758	47430.6	143.6	47349	47349	0	47349	47349	0
	50	rnd	48043	47647.93	240.21	47897	47509.7	286.15	47915	47558.5	225.76	47972	47509.57	274.39
		2op	47758	47438.3	127.3	47758	47507.5	149.95	47458	47352.63	19.9	47349	47349	0

Table A.1508: *m15421_6*: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47923	47578.07	239.81	48029	47602.3	268.31	47864	47480.8	251.4	47925	47482.5	256.88
		2op	47758	47550.23	152.64	47758	47741	53.47	47423	47352.63	14.74	47349	47349	0
	50	rnd	47790	47496.3	277.22	47923	47575.67	232.38	47914	47482.93	320.74	47916	47568.33	236.33
51	20	rnd	47758	47504.07	161.08	47758	47755.63	4.63	47758	47399.9	120.97	47349	47349	0
		2op	48051	47610.93	261.69	47978	47633.23	230.39	47927	47620.67	204.17	47839	47510.6	228.83
	50	rnd	47758	47469.07	136.86	47758	47757.33	1.24	47758	47543.1	157.53	47349	47349	0
	20	rnd	47871	47509.77	236.36	47864	47530.77	271.82	48002	47616.13	279.94	47916	47537.03	239.69
		2op	47758	47530.83	156.88	47758	47757.2	1.35	47758	47718.63	84.21	47738	47373.37	92.94

Table A.1509: $m15421_6$: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47961	47638.27	192.62	47961	47617.9	206.11	47967	47606.47	197.48	48027	47525.53	293.73
		2op	47814	47617	164.61	47814	47593.33	171.18	47349	47349	0	47349	47349	0
	50	rnd	48034	47682.23	205	48032	47603.27	242.44	47933	47567.07	217.95	47836	47558.2	261.46
51	20	rnd	47758	47573.23	177.05	47758	47569.47	180.05	47349	47349	0	47349	47349	0
		2op	47918	47538.93	278.17	48052	47716.33	182.47	47952	47521.4	377.02	48043	47548.93	314.69
	50	rnd	47758	47733.87	53.79	47758	47756.53	4.08	47758	47410.97	137.07	47349	47349	0
	20	rnd	47879	47559.4	306.93	47978	47580.37	220.8	47958	47609.47	235.76	47862	47546.23	215.16
		2op	47758	47747.9	35.03	47758	47734.07	81.7	47758	47504.27	173.9	47349	47349	0

Table A.1510: $m15421_6$: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48035	47547.93	311.08	47943	47539.03	255.86	47933	47578.23	226.56	47910	47539.4	262.32
		2op	47758	47567.7	160.8	47758	47584.93	162.24	47758	47377.13	102.16	47349	47349	0
	50	rnd	47973	47625.97	226.58	47961	47631.1	212.12	47944	47459.33	335.77	47943	47457.27	280.78
51	20	rnd	47758	47676.67	133.8	47758	47687.3	125.44	47747	47362.83	72.59	47349	47349	0
		2op	47936	47628.17	261.02	47875	47555.33	258.19	47917	47591.83	274.22	47848	47578.77	181.18
	50	rnd	47758	47706.87	97.01	47758	47749.07	35.01	47758	47550.53	191.05	47349	47349	0
	20	rnd	48051	47608.87	208.55	47873	47546.67	239.28	47973	47543.47	302.45	47898	47502.57	241.79
		2op	47758	47670.43	126.09	47758	47744.2	32.02	47758	47439.67	141.7	47349	47349	0

Table A.1511: $m15421_6$: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54876	54399.93	310.77	54998	54335.17	287.61	54876	54344.57	374.8	54921	54336.9	344.49
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	54947	54347.27	305.64	55024	54416.37	330.3	54985	54380	243.85	55100	54313.33	364.19
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
51	20	rnd	54898	54289.53	426.12	54909	54390.37	355.63	54752	54290.43	372.14	54955	54322.97	270.66
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	54903	54363.73	328.22	55078	54518.43	273.91	54960	54393.73	372.39	54951	54349.9	337.73
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0

Table A.1512: *m15421_7*: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54793	54255.7	274.23	55042	54458.6	395.95	54729	54363.07	271.95	54880	54300.37	341.91
		2op	54753	54729.6	19.87	54959	54739.27	44.91	54705	54705	0	54705	54705	0
	50	rnd	54895	54373.77	368.71	55001	54440.73	359.68	54884	54340.43	416.66	54827	54397.83	274.96
		2op	54753	54733.93	17.78	54756	54747.37	4.18	54745	54706.47	7.31	54705	54705	0
51	20	rnd	55010	54382.13	344.04	55013	54537.1	294.41	55003	54347.7	293.71	54895	54294.97	319.45
		2op	54754	54731.7	19.26	54771	54751.07	5.84	54745	54720.73	15.8	54708	54705.1	0.55
	50	rnd	54961	54497.07	260.07	54899	54555.8	266.98	54752	54335.63	338.83	54716	54295.77	281.05
		2op	54754	54740.5	13.14	54754	54752.2	4.22	54959	54741.97	43.96	54705	54705	0

Table A.1513: *m15421_7*: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55112	54443.47	335.24	55014	54381.13	405.03	55084	54432.3	355.28	55018	54299.83	353.09
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	54837	54331.9	369.22	54866	54304.77	334.66	54902	54405.9	333.46	54912	54335.63	378.13
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
51	20	rnd	54998	54441.43	254.82	54773	54338.43	314.35	54927	54311.13	315.53	54801	54293	354.18
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	54951	54447.53	297.2	54931	54492.07	339.7	55046	54433.57	295.44	54924	54427.27	352.54
		2op	54745	54707.53	9.66	54710	54705.17	0.91	54705	54705	0	54705	54705	0

Table A.1514: *m15421_7*: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54901	54365.67	317.27	54895	54502.7	269.04	54827	54341.97	352.12	54872	54356.33	359.93
		2op	54754	54731.6	18.2	54747	54731.47	15.1	54705	54705	0	54705	54705	0
	50	rnd	54883	54355.6	380.11	55037	54541.27	317.01	54757	54198.13	377.92	54788	54203.73	333.19
51	20	rnd	54754	54734.13	18.79	54756	54746.57	4.27	54745	54706.5	7.33	54705	54705	0
		2op	54855	54384.57	274.6	55017	54527.27	300.87	54879	54313	278.13	54853	54379.4	243.98
	50	rnd	54754	54732.47	18.76	54756	54749.67	4.5	54747	54723.7	20.13	54705	54705	0
	20	rnd	54974	54434.9	334.06	54959	54582.47	260.25	54940	54435.17	315.44	54805	54323.33	325.92
		2op	54754	54735.8	17.05	54771	54753.67	4.27	54959	54739.7	45.01	54705	54705	0

Table A.1515: $m15421.7$: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55009	54480.27	356.24	54731	54396.33	271.68	54921	54370.57	321.8	54842	54340.5	374.99
		2op	54754	54712.03	15.11	54754	54711.17	14.97	54705	54705	0	54705	54705	0
	50	rnd	55135	54455.4	327.32	54882	54321.97	320.66	54866	54278.97	393.39	54899	54383.23	348.37
51	20	rnd	54754	54709.87	13.01	54754	54709.77	12.96	54705	54705	0	54705	54705	0
		2op	54974	54506.53	365.18	55014	54525.53	264.02	55037	54461.1	329.24	54942	54183.1	423.38
	50	rnd	54754	54741.33	14.81	54769	54748.8	6.08	54705	54705	0	54705	54705	0
	20	rnd	55010	54663.4	236.87	54956	54478.4	391.43	54834	54338.83	322.54	54913	54309.4	397.13
		2op	54754	54748.17	5.57	54769	54745.37	11.98	54733	54705.93	5.11	54705	54705	0

Table A.1516: $m15421.7$: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54884	54353.97	433.4	54898	54466.4	309.58	54939	54354.97	361.88	54834	54348.53	281.78
		2op	54754	54740.73	14.42	54959	54747.6	42.45	54705	54705	0	54705	54705	0
	50	rnd	54945	54509.03	233.33	54982	54547.2	321.53	54834	54283.27	304.43	54945	54355.3	334.98
51	20	rnd	54754	54743.93	7.55	54754	54740.2	12.92	54720	54705.73	2.98	54705	54705	0
		2op	54811	54419.87	303.17	54923	54356.83	314.14	54788	54384.83	301.9	55031	54326.07	372.7
	50	rnd	54756	54747.9	4.49	54756	54746.67	3.93	54747	54716.57	16.61	54705	54705	0
	20	rnd	54964	54471.57	285.52	54917	54432.93	357.15	54891	54360.07	468.38	54856	54221.83	394.47
		2op	54754	54746.8	3.66	54754	54741.23	11.69	54754	54712.77	15.92	54705	54705	0

Table A.1517: $m15421.7$: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11394	11222.73	123.41	11478	11257.83	120.84	11372	11176.2	156.36	11478	11207.7	116.54
		2op	11109	11020.4	35.83	11373	11252.67	83.7	11109	11013.33	26.68	11003	11003	0
	50	rnd	11478	11248.07	168.05	11478	11280.33	103.22	11478	11280.4	132.28	11411	11178.5	152.75
51	20	rnd	11305	11049.03	80.26	11373	11279.67	54.05	11373	11086.27	90.95	11003	11003	0
		2op	11478	11180.83	165.55	11478	11243.27	151.02	11478	11264.23	136.59	11478	11188.63	177.55
	50	rnd	11109	11019.4	25.14	11285	11127.27	49.22	11305	11210.33	79.11	11109	11055.47	49.87
	20	rnd	11478	11214.27	142.7	11478	11322.93	111.25	11478	11308.63	133.94	11478	11213.67	152.96
		2op	11109	11069.73	45.01	11373	11237.9	80.91	11373	11289.37	48.7	11109	11032.87	42.13

Table A.1518: $x60189_4$: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11372	11145.3	179.89	11478	11258.5	108.38	11478	11277.17	186.75	11478	11204.5	174.02
		2op	11109	11026.47	36.2	11305	11132.4	53.3	11109	11109	0	11017	11003.93	3.55
	50	rnd	11411	11152.3	146.28	11478	11215.63	147.86	11478	11222.63	171.06	11470	11237.73	138.43
51	20	rnd	11109	11027.67	35.09	11285	11155.57	68.38	11285	11128.83	52.84	11109	11056.53	47.45
		2op	11409	11113.3	156.94	11478	11279.77	145.24	11478	11241.2	165.51	11478	11241.37	138.44
	50	rnd	11109	11020.8	28.24	11109	11109	0	11256	11143.1	58.96	11109	11109	0
	20	rnd	11411	11090.63	179.6	11478	11275.43	147.81	11478	11201.03	158.02	11478	11269.1	141.28
		2op	11109	11020.6	30.71	11109	11109	0	11305	11158.03	71.47	11109	11109	0

Table A.1519: $x60189_4$: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11221.23	170.73	11478	11308.23	118.25	11478	11213.3	140.08	11478	11175.8	158.56
		2op	11285	11026.67	63.08	11394	11266.3	66.38	11151	11023.47	43.5	11003	11003	0
	50	rnd	11478	11214.63	134.41	11478	11284.13	145.49	11413	11242.9	103.69	11478	11214.7	131.66
51	20	rnd	11213	11022.93	48.02	11394	11290.83	52.4	11305	11088.5	90.75	11003	11003	0
		2op	11478	11197.6	136.39	11478	11210.77	132.8	11411	11245.8	88.74	11478	11186.1	178.79
	50	rnd	11109	11038.6	40.66	11305	11141.6	68.5	11305	11201.43	89.68	11109	11071.27	48.26
	20	rnd	11478	11213.63	175.43	11478	11304.1	129.56	11478	11336.07	88.68	11478	11274.47	156.18
		2op	11305	11059.2	66.6	11373	11255.73	82.13	11373	11288.87	48.29	11259	11032.93	57.66

Table A.1520: $x60189_4$: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11168.9	164.07	11478	11265.77	101.67	11478	11234.27	141.14	11478	11161.57	169.7
		2op	11109	11017.53	25.78	11285	11137.67	59.3	11305	11115.53	35.78	11017	11003.47	2.56
	50	rnd	11321	11087.2	199.64	11478	11256.93	140.16	11413	11202.03	158.19	11458	11258.47	114.91
51	20	rnd	11109	11020.6	29.23	11305	11165.27	79.36	11256	11113.9	26.84	11109	11029.93	38
		2op	11394	11123.87	192.93	11413	11246.87	134.18	11478	11304.23	114.76	11478	11248.2	136.14
	50	rnd	11101	11021.47	27.02	11109	11109	0	11305	11132.17	60.42	11109	11109	0
	20	rnd	11411	11222.9	107.09	11478	11214.17	143.17	11478	11286.23	142.12	11478	11294.57	130.42
		2op	11109	11022.73	33.75	11109	11109	0	11256	11149.7	64.33	11109	11109	0

Table A.1521: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11237.8	147.52	11478	11301.9	128.67	11478	11195.9	177.56	11394	11182.2	159.84
		2op	11109	11069.87	48.95	11410	11300.47	46.38	11109	11011.47	26.85	11003	11003	0
	50	rnd	11478	11203.57	144.72	11478	11287.3	114.74	11478	11202.57	132.96	11478	11169.17	167.18
51	20	rnd	11256	11084.63	55.77	11394	11270.97	72.84	11109	11015.47	32.07	11003	11003	0
		2op	11478	11234.97	137.18	11478	11296.6	126.19	11478	11253.27	122.62	11478	11207.67	151.2
	50	rnd	11109	11084.47	41.38	11305	11130.17	57	11109	11073.3	43.99	11003	11003	0
	20	rnd	11413	11239.83	124.89	11478	11290.9	124.33	11478	11190.47	162.83	11413	11174.83	169.19
		2op	11305	11110.8	44.34	11305	11207.17	87.13	11305	11053.67	64.34	11017	11004.4	4.27

Table A.1522: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11170	184.61	11410	11196.8	179.71	11413	11197.4	165.63	11394	11133.73	171.11
		2op	11109	11044.4	42.57	11109	11108.53	1.87	11101	11009.53	18.28	11003	11003	0
	50	rnd	11394	11204.3	126.68	11478	11220.2	165.74	11478	11226.27	110.63	11394	11149.1	160.24
51	20	rnd	11109	11061.27	45.83	11305	11120.43	43.98	11109	11029.73	39.38	11095	11006.07	16.8
		2op	11411	11163.2	165.52	11478	11241.67	115.52	11478	11208.67	190.62	11411	11123.87	185.13
	50	rnd	11109	11084.2	41.22	11151	11110.33	7.69	11109	11067.97	43.97	11017	11004.4	4.27
	20	rnd	11411	11189.57	157.16	11478	11243.77	155.03	11478	11261.2	98.63	11478	11168.3	168.44
		2op	11109	11082.73	41.24	11109	11105.87	16.79	11109	11101.67	23.93	11109	11008.4	19.6

Table A.1523: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13853	151.61	14161	13962.7	114.5	14006	13832.37	124.55	14133	13847.53	163
		2op	14001	13848.07	119.81	14157	14012.57	43.59	13995	13744.63	73.03	13721	13721	0
	50	rnd	14157	13845.37	194.83	14137	13933.1	125.12	14159	13878.4	166.25	14133	13767.93	206.85
51	20	rnd	14133	13874.5	124.56	14157	14040.5	56.63	14001	13810.57	104.26	13721	13721	0
		2op	14133	13856.23	183.91	14137	13904.3	124.91	14161	13932.63	133.84	14076	13852	154.2
	50	rnd	14038	13860.13	90.2	14157	14013.37	71.67	14038	13989.97	35.41	13867	13725.87	26.66
	20	rnd	14071	13830.8	190.72	14161	13966.53	138.57	14161	13971.03	131.11	14161	13807.93	156.7
		2op	14018	13897.6	86.29	14157	14015.37	49.93	14157	14011.33	46.88	13827	13724.53	19.35

Table A.1524: $x60189_5$: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13830	176.85	14157	13937.1	172.48	14146	13878.13	172.31	14157	13795.27	190.15
		2op	13938	13770.63	61.03	14064	13974.9	36.12	14038	13941.13	66.4	13721	13721	0
	50	rnd	14131	13852.9	171.38	14137	13933.8	136.12	14161	13971	122.13	14095	13863.4	172.49
51	20	rnd	13938	13791.8	64.6	14157	14010.8	62.11	14038	13968.3	29.03	13922	13737.77	46.44
		2op	14161	13867.83	139.81	14161	13844.2	194.13	14161	13933.7	146.65	14154	13909.73	139.82
	50	rnd	13938	13803.1	78.63	14038	13982.67	27.1	14059	13972.1	23.82	13995	13802.5	92.92
	20	rnd	14159	13865.53	169.23	14161	13906.3	150.41	14161	13975.93	139.84	14157	13879.9	158.21
		2op	13827	13752.8	49.41	14038	13961.03	26.09	14157	14001.03	49.78	13968	13828.07	84.19

Table A.1525: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14133	13823	182.9	14139	13946.27	143.82	14139	13835.2	179.47	14105	13745.6	187.53
		2op	14038	13875.47	120.44	14157	14019.87	61.81	13995	13738.33	66.07	13721	13721	0
	50	rnd	14128	13863.97	132.48	14157	13962.57	149.04	14133	13865.37	172.55	14137	13836.5	201.54
51	20	rnd	14038	13887.67	119.78	14157	14018.3	37.17	14038	13799.63	115.28	13721	13721	0
		2op	14137	13860	153.8	14137	13896.37	120.43	14161	13903.1	154.82	14139	13893.5	181.77
	50	rnd	14038	13852.8	100.79	14157	14000	36.16	14064	13994.53	23.28	13932	13734.73	52.28
	20	rnd	14139	13892.77	166.98	14161	13983.57	103.47	14161	14008.03	132.43	14137	13768.83	186.91
		2op	14038	13898.97	96.28	14157	14026.97	53.4	14157	14031.93	57.92	14038	13734.57	59.62

Table A.1526: $x60189_5$: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14135	13866.77	166.27	14161	13979.03	140.05	14161	13902.23	159.47	14094	13798.4	134.33
		2op	13938	13774.33	67.58	14157	13976.13	51.13	13995	13903.97	81.8	13721	13721	0
	50	rnd	14133	13840.27	172.43	14161	13934.3	149.62	14157	13945.7	148.83	14066	13851.3	131.08
51	20	rnd	14133	13840.27	172.43	14161	13934.3	149.62	14157	13945.7	148.83	14066	13851.3	131.08
		2op	13938	13780.67	66.37	14157	13997.03	62.7	13995	13966.13	25.88	13827	13724.53	19.35
	50	rnd	14125	13833.47	190.36	14161	13915.67	175.66	14157	13913.03	159.61	14137	13880.33	157.28
	20	rnd	13932	13773.97	60.58	14157	13996.17	52.13	14157	13976.97	42.64	13968	13801.97	79.08
		2op	14101	13868.1	143.19	14161	13883.77	163.71	14161	13954.73	133.02	14155	13941.5	144.91
	50	rnd	13827	13774	53.91	14064	13961.97	49.62	14157	13987.63	51.55	14038	13806.47	86.05

Table A.1527: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13878.23	140.38	14161	13986.13	103.72	14127	13789.23	163.9	14139	13842.1	171.19
		2op	14038	13929.83	74.62	14157	14043.73	61.68	13995	13737.17	62.08	13721	13721	0
	50	rnd	14161	13861.27	194.28	14157	13974.57	135.32	14039	13770.73	147.49	14064	13800.23	157.74
51	20	rnd	14038	13971.57	76.91	14157	14037.93	65.15	14004	13755.53	89.85	13721	13721	0
		2op	14137	13877.7	134.96	14161	13916.7	126.17	14139	13878.27	169.08	14127	13814.5	177.43
	50	rnd	14038	13934.17	71.49	14038	14002.13	28.04	14004	13820.97	100.28	13721	13721	0
	20	rnd	14137	13880.67	118.01	14133	13939.6	135.29	14161	13886.03	155.78	14161	13817.9	155.18
		2op	14038	13973.77	44.61	14157	14007.2	60.17	13962	13791.17	94.58	13721	13721	0

Table A.1528: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14155	13902.47	166.6	14151	13921	172.19	14124	13860.57	162.74	14099	13778.4	189.13
		2op	13938	13825.77	66.53	13995	13889.03	63.72	13827	13731.07	30.81	13721	13721	0
	50	rnd	14137	13936.87	186.17	14161	13924.57	173.24	14127	13823.6	184.36	14123	13835.73	146.61
51	20	rnd	13932	13822.9	40.8	14038	13946.33	52.5	13827	13731.6	32.34	13721	13721	0
		2op	14161	13918.73	168.8	14161	13893.1	143.09	14125	13882.33	173.3	14090	13879.63	145.01
	50	rnd	13938	13833.33	53.2	13995	13909.83	61.69	14038	13788.87	88.68	13721	13721	0
	20	rnd	14137	13943.67	131.83	14062	13891.33	115.29	14139	13921.13	138.22	14133	13787.83	169.92
		2op	13968	13843.87	40.88	14038	13880.6	61.87	13995	13795.83	75.48	13721	13721	0

Table A.1529: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18093	17873.33	164.32	18251	17983.3	143.67	18301	17899.13	210.81	18261	17880.73	193.21
		2op	18017	18003.2	11.46	18017	18001.67	11.03	17994	17994	0	17994	17994	0
	50	rnd	18175	17848.43	203.69	18181	17992.17	163.8	18172	17882.23	221.19	18301	17895.5	196.63
51	20	rnd	18017	18003.97	11.59	18017	18015.2	5.94	17994	17994	0	17994	17994	0
		2op	18184	17890.47	159.38	18171	17982.27	124.18	18301	17904.03	188	18176	17881.67	208.26
	50	rnd	18017	18007.03	11.59	18017	18017	0	18017	18000.8	10.58	17994	17994	0
	20	rnd	18114	17853.53	186.04	18132	17933.37	149.41	18156	17930.27	134.92	18172	17865.93	184.48
		2op	18017	18010.1	10.72	18017	18017	0	18017	18012.4	9.36	17994	17994	0

Table A.1530: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18143	17891.1	144.94	18165	17930.83	152.55	18172	17871.33	173.84	18172	17775.6	173.04
		2op	18017	18007.03	11.59	18017	18017	0	18017	18014.67	7.01	17994	17994	0
	50	rnd	18156	17876.2	127.77	18301	18017.57	149.48	18301	17879.47	227.43	18184	17846.7	173.47
51	20	rnd	18017	18006.27	11.67	18017	18017	0	18017	18017	0	18017	17994.77	4.2
		2op	18184	17880.5	180.57	18301	17874.67	172.58	18301	17923.1	159.57	18171	17880.1	176.15
	50	rnd	18017	18007.03	11.59	18017	18017	0	18017	18017	0	18017	18000.13	10.34
	20	rnd	18184	17916.2	181.99	18176	17868.23	174.15	18195	17952.47	158.99	18172	17913.83	158.95
		2op	18017	18004.73	11.67	18017	18017	0	18017	18017	0	18017	18000.13	10.34

Table A.1531: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17865.9	232.58	18171	17905.1	148.79	18159	17883.8	179.23	18171	17863.13	185.53
		2op	18017	17997.07	7.95	18017	18003.2	11.46	17994	17994	0	17994	17994	0
	50	rnd	18109	17902.43	131.55	18301	17964.57	155.84	18172	17871.23	166.96	18172	17908.8	188.91
51	20	rnd	18017	18001.67	11.03	18017	18016.23	4.2	17994	17994	0	17994	17994	0
		2op	18275	17898.6	178.23	18131	17990.53	119.31	18275	17960.97	161.82	18084	17794.7	177.38
	50	rnd	18017	18007.8	11.46	18017	18017	0	18017	18001.03	10.6	17994	17994	0
	20	rnd	18301	17965.73	158.76	18301	17992.9	133.21	18301	17944.53	157.63	18134	17899.43	121.66
		2op	18017	18007.8	11.46	18017	18017	0	18017	18016.23	4.2	17994	17994	0

Table A.1532: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18184	17870.23	179.1	18171	17954.87	171.04	18292	17890.8	160.48	18184	17817.83	235.51
		2op	18017	18005.5	11.7	18017	18017	0	18017	18009.33	11.03	17994	17994	0
	50	rnd	18172	17849.03	190.33	18292	17970.67	144.56	18172	17948.63	156.31	18142	17875.8	169.35
51	20	rnd	18017	18003.97	11.59	18017	18017	0	18017	18017	0	17994	17994	0
		2op	18175	17882.77	154.38	18186	17902.33	160.16	18301	17973.8	193.95	18109	17848.87	179.01
	50	rnd	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18017	17999.37	9.89
	20	rnd	18142	17866.1	160.53	18301	17879.23	224.87	18165	17952.83	141.16	18301	17872.6	215.55
		2op	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18017	18002.43	11.27

Table A.1533: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17909.7	198.16	18212	18011.03	133.02	18152	17877.5	144.8	18301	17900.93	151.42
		2op	18017	18017	0	18017	18017	0	17994	17994	0	17994	17994	0
	50	rnd	18143	17890.87	135.7	18301	18031.27	125.21	18156	17878	176.97	18152	17889.67	166.8
51	20	rnd	18017	18015.47	5.84	18017	18016.23	4.2	17994	17994	0	17994	17994	0
		2op	18181	17931.77	213.77	18165	17946.77	162.21	18120	17887.93	170.52	18260	17856.6	205.15
	50	rnd	18017	18017	0	18017	18017	0	18017	18008.57	11.27	17994	17994	0
	20	rnd	18176	18028.3	98.47	18152	17952.1	128.69	18176	17971.93	125.15	18216	17903.23	126.59
		2op	18017	18017	0	18017	18017	0	18017	18001.67	11.03	17994	17994	0

Table A.1534: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18156	17884.4	193.66	18141	17924.73	149.47	18301	17871.83	230.84	18275	17901.4	192.21
		2op	18017	18017	0	18017	18017	0	18017	17997.07	7.95	17994	17994	0
	50	rnd	18184	17914.6	128.72	18284	17954.73	148.64	18171	17899.53	196.61	18044	17780.6	185.68
51	20	rnd	18017	18016.23	4.2	18017	18017	0	18017	18000.13	10.34	17994	17994	0
		2op	18175	17942.77	167.6	18175	17928.17	181.66	18260	17938.5	161.45	18119	17832.6	156.74
	50	rnd	18017	18017	0	18017	18017	0	18017	18011.63	9.89	17994	17994	0
	20	rnd	18142	17909.17	161.79	18142	17898	153.08	18184	17871.33	207.58	18172	17875.8	179.02
		2op	18017	18017	0	18017	18017	0	18017	18011.63	9.89	17994	17994	0

Table A.1535: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21184	20870.73	189.85	21176	20911.5	172.7	21153	20863.37	246.93	21150	20869.97	195.18
		2op	20829	20829	0	21193	20855.17	78.95	20829	20829	0	20829	20829	0
	50	rnd	21170	20822.9	242.14	21176	20956.53	150.34	21234	20856.27	212.85	21196	20867.57	230.28
51	20	rnd	21008	20839.43	40.14	21210	20957.97	129.75	20829	20829	0	20829	20829	0
		2op	21172	20834.27	214.52	21196	20939.33	178.42	21182	20945.43	157.44	21192	20810.37	249.79
	50	rnd	20829	20829	0	21193	20937.63	112.43	21052	20836.43	40.71	20829	20829	0
	20	rnd	21245	20847.97	274.58	21196	20949.53	176.91	21206	20929.97	151.66	21172	20870.3	216.24
		2op	20889	20831	10.95	21193	20962.13	101.76	21193	20849.13	68.16	20829	20829	0

Table A.1536: $x60189_7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21209	20888.1	179.68	21172	20897.17	207.62	21148	20829.8	186.25	21212	20884.13	189.15
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	21212	20876.07	196.2	21212	20906.63	192.95	21177	20889.9	220.22	21206	20835.7	218.39
51	20	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	21162	20897.43	173.81	21173	20970.13	166.45	21173	20899.63	208.68	21181	20903.07	170.12
	50	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	20	rnd	21209	20915	193.04	21202	20847.2	237.11	21181	20937.17	149.92	21212	20882.07	204.72
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.1537: $x60189_7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21175	20878.57	206.89	21135	20915.07	169.13	21166	20807.47	217.94	21233	20848.9	212.81
		2op	20997	20837.9	35.06	21139	20844.67	59.56	20829	20829	0	20829	20829	0
	50	rnd	21235	20885.93	221.68	21212	20991.7	135.85	21113	20727.2	231.02	21157	20846	178.94
51	20	rnd	21077	20844.87	60.44	21154	20874.3	85.23	20829	20829	0	20829	20829	0
		2op	21190	20846.8	217.98	21161	20922.97	162.64	21197	20831.13	258.86	21212	20854.97	187.9
	50	rnd	20889	20831	10.95	21059	20916.67	88.52	20889	20831	10.95	20829	20829	0
	20	rnd	21180	20900.33	182.73	21196	20980.5	175.96	21208	20980.4	123.23	21168	20848.43	169.05
		2op	21042	20841.37	47.61	21093	20986.17	89.99	21187	20848.03	74.89	20829	20829	0

Table A.1538: $x60189_7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21209	20831.17	180.36	21212	20945.43	163.9	21212	20898.1	239.37	21132	20857.67	213.98
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	21198	20898.77	176.38	21218	20955.9	146.95	21184	20846.63	212.85	21162	20832.6	183.47
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
51	20	rnd	21162	20922.23	149.35	21190	20925.4	187.87	21186	20842.6	192.74	21160	20887.3	167.9
		2op	20829	20829	0	20991	20834.4	29.58	20829	20829	0	20829	20829	0
	50	rnd	21182	20884.4	203.74	21165	20886.1	189.25	21161	20942.23	147.17	21195	20900.37	203.04
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.1539: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21215	20888.97	189.36	21271	20985.23	134.33	21169	20869.83	205.33	21246	20852.7	204.59
		2op	20829	20829	0	21057	20890.03	74.71	20829	20829	0	20829	20829	0
	50	rnd	21271	20946.37	167.11	21233	21007.77	133.47	21190	20808.07	181.92	21160	20817.83	187.75
		2op	21008	20838.77	35.08	21193	20893	101.83	20829	20829	0	20829	20829	0
51	20	rnd	21203	20908.67	184.8	21203	20955.23	172.99	21132	20894.57	211.38	21224	20819	223.81
		2op	20889	20831	10.95	21193	20916.67	105.28	20889	20831	10.95	20829	20829	0
	50	rnd	21196	20926.7	163.55	21212	20930.77	183.59	21212	20880.53	230.29	21178	20849.07	189.47
		2op	21193	20868.4	106.42	21193	20951.4	116.23	20889	20831	10.95	20829	20829	0

Table A.1540: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21214	20938.83	177.52	21165	20863.8	215.43	21160	20794.47	230.52	21130	20761.17	192.23
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	21218	20878.97	236.8	21156	20884.77	172.97	21196	20820.87	215.52	21087	20795.5	177.88
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
51	20	rnd	21203	20872.33	204.7	21210	20931.93	189.5	21271	20903.2	219.16	21114	20830.47	199.72
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	21203	20876.27	177.05	21182	20957.23	154.41	21154	20816.23	210.81	21186	20840.9	213.77
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.1541: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.23	2.11	596	594.03	1.61	596	593.17	1.66	596	590.23	2.81
		2op	596	592.07	2.8	596	594.77	1.01	596	594.63	0.96	595	590.37	2.31
	50	rnd	596	592.3	2.84	596	594.77	1.17	596	594.83	0.99	595	589.97	3.33
51	20	rnd	595	592.67	2.32	596	594.73	0.78	596	595.03	0.61	595	590.57	2.19
		2op	595	591.7	2.18	596	593.97	1.52	596	594.47	1.31	596	593.27	2.08
	50	rnd	596	593.4	1.96	596	595.07	0.45	596	595.33	0.48	595	594.87	0.43
	20	rnd	596	592.8	2.14	596	594.83	1.02	596	595	0.74	596	593.77	1.81
		2op	596	593.33	2.26	596	595.2	0.66	596	595.33	0.66	596	594.7	0.6
	50	rnd	596	592.8	2.14	596	594.83	1.02	596	595	0.74	596	593.77	1.81

Table A.1542: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	590.07	3.61	596	592.63	2.54	596	593.2	2.37	596	591.4	2.95
		2op	594	590.6	2.33	595	594.93	0.25	595	594.33	0.55	594	593.8	0.81
	50	rnd	596	590.87	3.9	596	591.87	2.37	596	593.37	2.06	595	591.73	2.99
51	20	rnd	594	590.67	2.19	595	595	0	595	594.97	0.18	595	594.1	0.31
		2op	596	591.33	2.86	596	592.1	2.7	596	592.47	2.83	596	591.7	2.38
	50	rnd	594	591.03	2.3	595	594.63	0.96	595	594.87	0.35	595	594.2	0.48
	20	rnd	596	591.57	2.92	596	591.2	3.17	596	592.8	2.59	596	591.77	2.25
		2op	594	591.13	2.34	595	594.73	0.45	595	595	0	595	594.37	0.56
	50	rnd	596	591.57	2.92	596	591.2	3.17	596	592.8	2.59	596	591.77	2.25

Table A.1543: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	591.27	2.99	596	594.03	1.45	596	593.27	1.93	595	590.6	2.84
		2op	596	591.17	2.48	596	594.63	0.89	596	594.17	1.12	594	589.17	0.91
	50	rnd	595	591.67	2.76	596	594.53	0.97	596	594.43	1.14	595	591.1	2.86
51	20	rnd	596	592.83	2.51	596	595.17	0.91	596	594.73	0.91	595	589.93	2.13
		2op	595	591.43	3	596	593.97	1.35	596	594.9	1.3	595	593	1.8
	50	rnd	595	592.97	2.27	596	595.03	0.49	596	595.33	0.48	596	595.1	0.31
	20	rnd	596	592.67	1.79	596	595.07	0.78	596	594.97	1.07	596	593.43	1.87
		2op	596	593.77	1.76	596	595.33	0.48	596	595.33	0.55	596	594.73	0.64
	50	rnd	596	592.67	1.79	596	595.07	0.78	596	594.97	1.07	596	593.43	1.87

Table A.1544: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.07	3.18	596	592.9	2.59	595	591.9	2.72	596	591.43	2.74
		2op	594	591.13	2.18	595	594.9	0.4	595	594.27	0.45	594	593.5	1.14
	50	rnd	596	590.9	3.35	596	592.7	2.38	595	592.1	2.51	596	591.03	2.83
51	20	rnd	594	591.23	2.4	596	595.03	0.18	595	594.9	0.31	595	594	0.26
		2op	595	590.8	3.38	596	591.43	3.04	596	593.23	2.39	595	592.13	2.32
	50	rnd	594	590.97	2.31	595	594.73	0.45	595	594.9	0.31	595	594.27	0.45
	20	rnd	596	591.27	3.23	596	591.47	2.89	596	591.7	2.55	596	591.77	3.3
		2op	594	591.17	2.41	595	594.43	0.5	595	595	0	595	594.17	0.46

Table A.1545: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.87	2.26	596	594.63	1.16	595	591.23	2.86	595	589.03	3.42
		2op	596	594.47	0.78	596	595.43	0.5	594	589.17	0.91	589	589	0
	50	rnd	595	592.43	1.79	596	594.23	1.48	595	590.57	2.93	595	588.7	3.65
51	20	rnd	596	594.07	1.55	596	595.07	0.45	594	589.43	1.25	589	589	0
		2op	596	593.13	1.85	596	594.57	1.14	596	593	1.86	596	591.8	2.09
	50	rnd	595	594.2	0.41	596	595.1	0.31	595	594.7	0.47	595	591.63	2.39
	20	rnd	596	593	1.44	596	594.3	1.24	596	592.4	2.14	595	589.17	3.65
		2op	596	594.87	0.51	596	595.27	0.52	595	593.93	1.05	592	589.1	0.55

Table A.1546: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.87	3.04	596	592.33	2.23	596	590.8	3.57	595	589.97	4.09
		2op	594	593.07	1.8	595	594.1	0.31	594	590.17	1.93	589	589	0
	50	rnd	595	592.27	1.93	596	591.6	3.24	596	591.27	2.78	595	589.3	3.73
51	20	rnd	594	593.1	1.6	595	594.13	0.35	594	593.57	1.01	592	589.17	0.65
		2op	596	590.63	2.93	595	590.53	2.61	596	591.77	2.34	595	589.83	2.79
	50	rnd	595	593.6	1.16	594	594	0	595	594.03	0.18	594	589.33	1.27
	20	rnd	596	591.77	2.47	596	591.5	2.87	596	591.9	2.86	595	588.83	3.9
		2op	595	593.53	1.36	594	594	0	595	594.13	0.35	594	589.57	1.43

Table A.1547: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	772.23	2.54	777	775.23	1.28	777	774.2	2.41	776	770.93	5.41
		2op	775	768.17	3.59	777	774.33	2.14	777	773.23	1.99	770	765.23	0.97
	50	rnd	777	772.83	3.33	777	775.6	1.19	777	775.47	1.33	777	771	3.26
51	20	rnd	777	772.5	3.39	777	773.8	2.28	777	774.47	1.2	777	773.17	2.41
		2op	775	768.27	2.53	777	773	1.84	777	773.53	1.36	775	771.97	1.67
	50	rnd	777	773.57	2.62	777	775.03	1.35	777	775.53	1.36	777	774.47	1.55
		2op	775	769.97	2.2	777	775	1.55	777	775.6	1.52	776	772.13	1.63

Table A.1548: f_{25_400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	766.43	7.06	777	774	2.32	777	773	2.24	777	769.7	8.18
		2op	770	766.77	2.13	777	769.87	1.5	770	769.4	0.5	774	769.63	0.96
	50	rnd	775	767.13	4.93	776	771.83	2.74	777	773.37	2.5	777	770.7	5.74
51	20	rnd	775	767.53	6.51	777	770.6	5.73	777	773.3	1.93	777	770.23	7.79
		2op	770	767.47	2.34	770	769.6	0.5	771	769.47	0.63	772	769.67	0.8
	50	rnd	775	768.4	5.68	777	771	3.61	777	770.9	4.97	777	772.2	3.74
		2op	770	766.27	1.95	770	769.47	0.51	770	769.57	0.5	770	769.47	0.51

Table A.1549: f_{25_400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.8	2.77	777	774.8	1.58	777	774.43	1.45	777	768.87	5.58
		2op	775	768.93	3.39	777	774.63	1.94	777	772.77	1.81	770	765.43	1.3
	50	rnd	777	772.8	2.76	777	775.17	1.23	777	775.03	1.3	775	770.9	3.06
51	20	rnd	776	770.17	3.25	777	775.5	1.33	777	775.43	1.17	770	765.8	1.61
		2op	777	772.17	2.98	777	774.33	1.65	777	775	1.08	777	773.57	2.47
	50	rnd	775	768.5	2.33	777	773.47	1.53	777	773.67	1.79	776	772.43	1.38
		2op	777	773.83	1.68	777	775.07	1.2	777	776.07	0.87	777	774	2.32
		2op	776	770.4	2.85	777	774.43	1.65	777	775.33	1.77	777	773.27	2.16

Table A.1550: f_{25_400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	766	7.94	777	772.53	3.21	777	772.83	2.34	777	770.93	6.86
		2op	770	766.3	2.14	770	769.57	0.97	774	769.53	0.97	770	769.4	0.81
	50	rnd	775	767.6	8.16	777	769.63	8.22	777	772.63	3.02	777	770.2	6.13
51	20	2op	770	765.87	1.7	770	769.47	0.51	772	769.77	0.77	770	769.43	0.5
		rnd	775	766.07	9.3	777	767.63	10.08	777	771.73	5.55	777	772.47	3.19
	50	2op	770	766.43	1.98	770	769.6	0.5	774	769.7	1.06	770	769.6	0.5
	20	rnd	775	767.93	5.9	777	769	7.65	777	771.73	3.64	777	773.1	3.5
		2op	770	766.3	1.99	770	769.4	0.5	770	769.33	0.48	770	769.5	0.51

Table A.1551: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	770.93	3.25	777	775.03	1.25	777	770.97	3.77	775	766.7	9.4
		2op	775	769.43	2.22	777	773.63	1.65	770	765.33	1.27	765	765	0
	50	rnd	777	772.67	2.51	777	775.43	1.07	777	770.97	4.19	776	767.27	6.55
51	20	2op	777	771.3	2.76	777	774.6	1.67	775	765.9	2.25	765	765	0
		rnd	777	772.23	2.36	777	773.8	2.35	777	773.3	2.29	777	771.27	3.18
	50	2op	772	769.57	1.17	776	772.5	1.07	774	771.33	1.37	770	766.5	1.91
	20	rnd	777	774.03	1.9	777	774.43	1.61	777	773.83	2.44	776	769.17	4.81
		2op	777	770.93	2	777	772.8	1.47	774	771.57	1.79	765	765	0

Table A.1552: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	768.43	7.28	776	770.97	3.37	777	770.97	3.45	777	769.13	5.63
		2op	770	768.07	1.98	770	769.57	0.5	770	766.23	1.76	765	765	0
	50	rnd	775	768.1	6.5	777	770.6	6.72	777	770.97	3.78	777	770.23	3.96
51	20	2op	770	768.67	1.75	770	769.53	0.51	770	769.6	0.5	765	765	0
		rnd	775	769.43	5.92	777	769.37	7.17	777	772.17	3.31	776	770.97	3.62
	50	2op	770	769.1	1.18	770	769.73	0.45	770	769.4	0.5	769	765.47	1.11
	20	rnd	775	767.7	8.23	777	771.03	2.8	777	771.07	3.49	777	770.03	4.85
		2op	770	769.33	0.48	770	769.47	0.68	770	769.57	0.5	770	765.2	0.92

Table A.1553: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.17	3.51	921	917.3	2.52	921	916.33	2.78	919	913.27	3.84
		2op	919	912.8	4.44	921	918.93	1.66	921	917.8	1.95	918	909.57	3.83
	50	rnd	921	915.73	2.66	921	918.23	1.79	921	918.67	1.81	921	913.07	3.94
51	20	rnd	921	914.37	3.99	921	919	1.6	921	919.1	1.95	919	912.93	3.85
		2op	919	914.23	3.1	921	916.7	2.48	921	918.1	2.2	921	916.4	2.94
	50	rnd	916	913.93	2.65	921	917.23	1.45	921	918.1	1.6	918	916.07	0.69
	20	rnd	919	914.83	2.53	921	917.43	1.79	921	917.77	1.81	921	915.37	3.41
		2op	917	915.2	2.25	921	919.53	1.7	921	919.57	1.63	921	916.63	1.56
	50	rnd	916	913.93	2.65	921	917.23	1.45	921	918.1	1.6	918	916.07	0.69

Table A.1554: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	914.97	2.74	921	914.37	2.93	921	915.97	3.09	921	915.83	2.68
		2op	916	911.83	3.82	918	915.93	0.83	916	916	0	916	915.9	0.55
	50	rnd	919	913.27	5.04	921	915.2	2.81	921	915.67	2.71	921	914.97	3.21
51	20	rnd	916	912.47	4.31	916	915.97	0.18	921	916.23	0.97	916	915.97	0.18
		2op	919	913.6	5.34	921	916.2	2.82	921	915.4	3.17	921	915.07	3.13
	50	rnd	916	912.03	4.27	916	916	0	918	916.07	0.37	916	916	0
	20	rnd	921	914.33	3.18	919	914.73	2.73	921	914	3.12	921	915.93	2.72
		2op	916	912.67	3.88	916	916	0	916	916	0	916	916	0
	50	rnd	921	914.33	3.18	919	914.73	2.73	921	914	3.12	921	915.93	2.72

Table A.1555: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.33	3.74	921	917.57	1.77	921	916.97	2.51	919	913.27	3.19
		2op	919	913	3.76	921	918.3	2.12	921	917.07	1.66	921	908.87	4.45
	50	rnd	921	914.37	2.77	921	917.4	1.79	921	918.47	1.89	919	914.97	3.21
51	20	rnd	921	915.07	3.9	921	918.93	1.68	921	919.27	1.7	918	910.97	4.51
		2op	919	914.73	2.21	921	916.57	2.25	921	917.1	2.41	921	916.67	3.12
	50	rnd	918	914.7	2.83	921	917.03	1.65	921	918.37	1.77	921	916.67	1.18
	20	rnd	921	915.47	3.03	921	917.43	1.87	921	918.5	1.17	921	916.13	2.57
		2op	919	915.17	1.86	921	918.93	1.74	921	919.03	1.54	921	916.43	1.14
	50	rnd	921	915.47	3.03	921	917.43	1.87	921	918.5	1.17	921	916.13	2.57

Table A.1556: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	913.8	3.37	921	915.63	3.44	921	916.47	2.45	919	914.63	2.72
		2op	916	911.77	4.09	916	916	0	918	916.13	0.51	916	916	0
	50	rnd	919	912.77	5.65	919	914.13	3.17	921	915.4	2.77	919	915.33	3.14
51	20	2op	916	911.97	4.32	916	915.97	0.18	921	916.6	1.38	916	915.83	0.91
		rnd	918	913.33	4.1	921	914.43	4.1	919	914.77	2.37	921	915.77	3.41
	50	2op	916	912.13	3.96	916	916	0	916	916	0	916	916	0
	20	rnd	918	911.93	3.16	919	914.73	2.83	919	915.37	2.67	921	915.4	3.69
		2op	916	911.2	3.87	916	916	0	916	916	0	916	916	0
	50	rnd	918	911.93	3.16	919	914.73	2.83	919	915.37	2.67	921	915.4	3.69
	2op	916	911.2	3.87	916	916	916	0	916	916	0	916	916	0

Table A.1557: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.07	2.99	921	917.77	2.13	917	911.7	2.53	918	910.83	4.74
		2op	918	915.47	1.68	921	917.77	1.63	918	907.77	3.18	906	906	0
	50	rnd	921	916.3	2.39	921	918.8	1.45	919	913.77	3.41	918	912.43	3.65
51	20	2op	919	915.57	1.61	921	917.83	1.62	917	908.13	3.55	906	906	0
		rnd	921	915.97	2.4	921	917.73	2.7	921	916.83	2.29	921	914.63	2.99
	50	2op	916	915.83	0.91	918	916.23	0.5	918	916.2	0.55	919	915.4	2.51
	20	rnd	921	916.93	3.32	921	917.37	2.51	921	915.93	3	921	913.67	3.29
		2op	916	915.97	0.18	921	916.6	1.25	921	916.1	1.4	919	907.67	3.98
	50	rnd	921	916.93	3.32	921	917.37	2.51	921	915.93	3	921	913.67	3.29
	2op	916	915.97	0.18	921	916.6	916.6	1.25	921	916.1	1.4	919	907.67	3.98

Table A.1558: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	913.57	3.16	921	915.37	3.1	921	914.77	3.08	921	913.03	3.93
		2op	916	915.67	1.27	916	916	0	919	916.3	1.6	914	906.27	1.46
	50	rnd	921	914.17	3.73	921	914.6	2.9	921	915.53	2.86	919	913.43	3.84
51	20	2op	916	915.83	0.91	916	916	0	916	916	0	912	906.83	1.8
		rnd	919	914.2	3.37	921	915.43	3.54	919	915.3	3.15	919	912.9	4.54
	50	2op	916	916	0	916	916	0	916	916	0	919	911.6	4.37
	20	rnd	919	914.87	3.37	921	915.67	3.79	919	914.43	3.11	919	913.73	3.05
		2op	916	915.87	0.73	916	916	0	916	916	0	918	909.97	3.09
	50	rnd	919	914.87	3.37	921	915.67	3.79	919	914.43	3.11	919	913.73	3.05
	2op	916	915.87	0.73	916	916	916	0	916	916	0	918	909.97	3.09

Table A.1559: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1577	1559.3	12.6	1572	1559.67	7.57	1572	1557.87	10.34	1573	1556.77	11.97
		2op	1553	1553	0	1553	1553	0	1553	1553	0	1553	1553	0
	50	rnd	1572	1558.97	9.22	1574	1560.2	6.89	1575	1560.03	8.06	1568	1553.8	12.88
51	20	rnd	1568	1553.87	3.34	1570	1553.57	3.1	1553	1553	0	1553	1553	0
		2op	1571	1559.3	10.66	1572	1559.37	8.34	1573	1559.9	10.59	1570	1553.83	11.19
	50	rnd	1562	1554.1	2.5	1563	1554.47	2.89	1572	1555.1	4.25	1553	1553	0
	20	rnd	1568	1557.13	8.17	1578	1562.07	7.49	1577	1558.9	6.95	1573	1555.77	9.33
		2op	1566	1555.2	4.07	1562	1554	2.36	1569	1555.57	4.28	1553	1553	0

Table A.1560: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1556.83	9.82	1577	1555.53	12.07	1572	1555.63	11.47	1577	1553.13	14.23
		2op	1567	1554.7	2.77	1569	1560.6	5.42	1557	1553.17	0.75	1553	1553	0
	50	rnd	1573	1559.73	7	1576	1561.83	6.27	1571	1553.43	10.88	1573	1552.77	14.18
51	20	rnd	1556	1553.63	1	1572	1567.77	3.05	1567	1556.87	3.82	1555	1553.07	0.37
		2op	1578	1556.23	9.74	1577	1557.47	10.6	1578	1560.7	9.29	1575	1557.97	9.54
	50	rnd	1558	1553.83	1.46	1572	1565.27	4.9	1572	1560.03	5.52	1553	1553	0
	20	rnd	1574	1555.3	11.99	1577	1560	9.55	1577	1562.07	8.93	1571	1556.27	10
		2op	1558	1554.43	1.61	1573	1564.43	5.46	1572	1565.43	4.12	1557	1553.27	0.87

Table A.1561: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1572	1557.03	9.7	1573	1558.37	7.81	1573	1555.9	9.26	1580	1557.3	10.89
		2op	1570	1553.57	3.1	1555	1553.07	0.37	1553	1553	0	1553	1553	0
	50	rnd	1575	1558.53	9.04	1576	1559.27	8.28	1574	1558.1	10.57	1574	1553.93	10.01
51	20	rnd	1570	1554.1	3.63	1553	1553	0	1558	1553.17	0.91	1553	1553	0
		2op	1577	1559.37	8.69	1580	1558.7	8.95	1574	1559.2	9.04	1573	1555.37	10.5
	50	rnd	1563	1555.23	3.63	1563	1554.13	2.7	1571	1555.6	5	1553	1553	0
	20	rnd	1576	1560.6	9.17	1579	1561.1	8.29	1579	1559.83	7.96	1573	1555.77	10.71
		2op	1569	1554.23	3.91	1564	1554.2	2.85	1572	1554.33	4.03	1553	1553	0

Table A.1562: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1556.3	10.58	1577	1558.1	10.23	1576	1556.27	10.82	1574	1552.93	13.69
		2op	1558	1553.93	1.51	1570	1560.5	4.9	1562	1553.8	1.95	1553	1553	0
	50	rnd	1575	1558.83	7.77	1574	1559.93	8.32	1573	1558.5	7.58	1571	1553.97	12.12
51	20	rnd	1558	1553.87	1.63	1572	1566.63	4.16	1563	1554.97	2.4	1553	1553	0
		2op	1577	1559.2	11.48	1574	1556.5	12.33	1574	1556.63	10.85	1570	1551.87	13.76
	50	rnd	1563	1554.13	2.15	1573	1565.47	4.78	1567	1559.97	4.21	1553	1553	0
	20	rnd	1572	1558.1	8.29	1572	1559.7	9.65	1572	1556.77	9.48	1578	1557.47	12.2
		2op	1556	1554.03	1.25	1572	1566.3	3.91	1572	1565.73	4.07	1563	1553.6	2.04

Table A.1563: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1580	1558.8	9.14	1574	1556.37	10.81	1573	1553.13	14.47	1570	1554.07	11.52
		2op	1568	1555.37	4.69	1565	1555.53	4.43	1553	1553	0	1553	1553	0
	50	rnd	1574	1559.2	8.27	1572	1559.23	7.8	1578	1556.23	8.91	1570	1558.23	10.79
51	20	rnd	1564	1554.2	2.55	1562	1553.43	1.72	1553	1553	0	1553	1553	0
		2op	1579	1560.33	8.3	1576	1562.03	6.84	1575	1558.53	9.48	1574	1554.6	10.49
	50	rnd	1564	1557.5	3.12	1571	1566.93	3.24	1559	1553.57	1.57	1553	1553	0
	20	rnd	1572	1559.67	7	1573	1559.8	7.36	1576	1556.27	8.9	1577	1559.17	9.12
		2op	1569	1559.53	5.11	1569	1559.43	5.22	1553	1553	0	1553	1553	0

Table A.1564: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1559.47	7.09	1576	1556.77	11.29	1568	1552.5	16.38	1571	1551.67	14.01
		2op	1558	1554.13	1.43	1558	1554.17	1.23	1563	1553.33	1.83	1553	1553	0
	50	rnd	1570	1556.57	8.29	1578	1559.1	9.69	1572	1558.4	10.1	1577	1555.4	11.85
51	20	rnd	1558	1555.1	1.67	1558	1554.6	1.33	1555	1553.07	0.37	1553	1553	0
		2op	1574	1557.73	12.21	1573	1558.27	9.87	1570	1555.53	10.93	1568	1552.77	10.66
	50	rnd	1563	1554.8	2.09	1564	1555.9	2.47	1555	1553.13	0.51	1553	1553	0
	20	rnd	1574	1560.93	7.43	1570	1558.07	7.5	1571	1556.13	12.13	1573	1555.33	12.57
		2op	1566	1556.13	2.94	1564	1555.8	2.38	1557	1553.2	0.81	1553	1553	0

Table A.1565: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1553.3	10.49	1569	1555.2	7.87	1566	1550.1	12.51	1565	1548.37	11.71
		2op	1563	1536	10.72	1564	1536.23	10.46	1531	1531	0	1531	1531	0
	50	rnd	1571	1552.7	9.54	1570	1555.2	7.2	1564	1553.77	8.77	1564	1551.73	9.46
51	20	rnd	1558	1534.23	8.46	1563	1539.47	12.56	1561	1533.37	7.37	1531	1531	0
		2op	1567	1554.13	11.01	1571	1555.53	9.11	1570	1556.63	7.76	1570	1550.67	10.04
	50	rnd	1561	1540	11.77	1565	1546.2	12.18	1567	1547.47	13.19	1531	1531	0
	20	rnd	1570	1551.83	7.56	1567	1555.37	7.68	1568	1558.6	5.95	1567	1550.57	11.79
		2op	1566	1541.63	13.81	1565	1549	12.7	1569	1552.17	11.59	1550	1531.63	3.47

Table A.1566: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1543.47	15.14	1570	1554.1	8.95	1566	1549.13	11.51	1568	1547.63	9.26
		2op	1531	1531	0	1567	1537.47	11.37	1531	1531	0	1531	1531	0
	50	rnd	1563	1543.53	11.56	1569	1554.43	11.17	1569	1555.63	10.5	1564	1549.7	10.34
51	20	rnd	1531	1531	0	1565	1547.8	10.5	1542	1531.4	2.01	1531	1531	0
		2op	1565	1544.23	11.55	1569	1552.77	9.4	1569	1556.53	8.17	1569	1552.5	10.59
	50	rnd	1531	1531	0	1565	1545.23	10.73	1565	1535.1	8.96	1531	1531	0
	20	rnd	1564	1545.73	13.58	1566	1549.33	9.48	1567	1553.3	8.77	1568	1551.83	12.57
		2op	1531	1531	0	1566	1536.73	9.97	1567	1540.2	11.22	1531	1531	0

Table A.1567: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1551.43	10.42	1569	1556.23	9.1	1569	1549.57	11.03	1566	1545.67	11.58
		2op	1557	1534.33	8.67	1562	1536.93	11.18	1531	1531	0	1531	1531	0
	50	rnd	1566	1554.57	9.51	1570	1554	7.47	1568	1552.83	8.93	1567	1546.6	13.18
51	20	rnd	1560	1533.47	7.6	1562	1536.03	10.22	1531	1531	0	1531	1531	0
		2op	1565	1553.8	7.22	1568	1551.27	9.35	1569	1553.47	8.45	1564	1552.73	7.95
	50	rnd	1564	1537.47	11.11	1566	1544.83	12.58	1566	1541.87	14.07	1531	1531	0
	20	rnd	1565	1553.83	8.53	1568	1555.33	9.2	1568	1557.43	6.96	1566	1554.23	12.49
		2op	1563	1541.03	13.63	1569	1548.4	14.22	1568	1552.33	11.6	1531	1531	0

Table A.1568: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1544.93	9.53	1567	1553.57	9.09	1565	1549	12.28	1567	1550.73	10.18
		2op	1531	1531	0	1565	1537.5	10.73	1531	1531	0	1531	1531	0
	50	rnd	1561	1545.53	10.89	1568	1556.47	7.25	1569	1552.27	10.38	1569	1551.57	10.49
51	20	2op	1531	1531	0	1567	1550.63	12.13	1545	1531.47	2.56	1531	1531	0
		rnd	1569	1541.17	12.88	1565	1552	10.33	1566	1554.1	8.53	1567	1549.7	10.71
	50	2op	1531	1531	0	1562	1544.57	10.18	1556	1534.37	7.39	1531	1531	0
	20	rnd	1566	1548.97	11.47	1567	1550.43	9.8	1569	1552.97	9.25	1562	1548.03	9.35
		2op	1531	1531	0	1557	1539.93	10.52	1566	1541.67	12.26	1531	1531	0

Table A.1569: f_{50_412} : transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1553.07	10.75	1568	1557.97	4.76	1564	1547.63	10.01	1570	1550.9	10.4
		2op	1569	1538.8	12.69	1573	1551.7	11.92	1531	1531	0	1531	1531	0
	50	rnd	1570	1551.93	7.45	1570	1556.8	8.08	1566	1548	13.9	1560	1545.33	11.21
51	20	2op	1570	1540.4	13.34	1569	1544.33	15.13	1531	1531	0	1531	1531	0
		rnd	1572	1556.77	9.28	1570	1558.8	7.72	1564	1551.1	9.32	1567	1550.73	9.67
	50	2op	1564	1554.4	8.37	1565	1557.47	2.65	1561	1533.83	8.66	1531	1531	0
	20	rnd	1568	1555.97	8.29	1568	1556.13	7.4	1569	1554.4	10.91	1571	1551.27	11.24
		2op	1566	1554.67	10.35	1565	1555.93	7.62	1531	1531	0	1531	1531	0

Table A.1570: f_{50_412} : basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1546.23	9.75	1567	1551.67	9.47	1569	1548.63	9.89	1566	1546.2	13.04
		2op	1531	1531	0	1531	1531	0	1531	1531	0	1531	1531	0
	50	rnd	1565	1549.1	9.9	1569	1550.9	12.57	1563	1548.1	10.98	1569	1546.7	11.46
51	20	2op	1531	1531	0	1540	1531.3	1.64	1531	1531	0	1531	1531	0
		rnd	1565	1550.5	11.6	1566	1552.43	8.54	1569	1551.07	11.33	1570	1551.2	12.33
	50	2op	1531	1531	0	1540	1531.3	1.64	1531	1531	0	1531	1531	0
	20	rnd	1565	1548.93	11.79	1565	1549.53	7.9	1568	1549.17	12.38	1565	1544.83	12.66
		2op	1531	1531	0	1534	1531.1	0.55	1531	1531	0	1531	1531	0

Table A.1571: f_{50_412} : transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1565	1548.8	9.33	1564	1553.57	6.07	1568	1547.3	9.19	1562	1547.33	8.82
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1563	1549.9	8.28	1565	1550.5	6.92	1566	1550.3	8.38	1561	1548.5	8.73
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1562	1550.57	8.11	1566	1551.03	9.62	1565	1551.6	7.78	1562	1549.47	9.47
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1561	1549.37	8.32	1562	1550.3	6.79	1563	1552.23	7.33	1564	1548.3	9.23
		2op	1550	1548.07	0.37	1550	1548.13	0.51	1550	1548.07	0.37	1548	1548	0

Table A.1572: $f_{50.498}$: basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1558	1547.93	8.43	1566	1552	6.83	1567	1548.97	7.13	1565	1548.67	7.16
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1562	1548.7	9.49	1567	1550.4	7.2	1566	1551.4	9.39	1561	1551.47	6.48
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1562	1547	8.06	1565	1550.63	10.04	1567	1550.3	9.89	1559	1548.3	7.02
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1565	1548.8	9.06	1564	1551.13	6.23	1568	1550.3	7.87	1566	1549.73	8.66
		2op	1548	1548	0	1548	1548	0	1549	1548.03	0.18	1548	1548	0

Table A.1573: $f_{50.498}$: transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1549.67	10.98	1564	1549.23	9.9	1563	1549.9	9.51	1563	1547.27	8.66
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1565	1546.3	9.63	1563	1550.93	7.16	1560	1548.83	8.52	1563	1546.9	10.66
		2op	1548	1548	0	1556	1548.27	1.46	1548	1548	0	1548	1548	0
51	20	rnd	1562	1549.07	10.79	1565	1551.8	7.31	1565	1547.07	8.44	1564	1548.43	8.79
		2op	1548	1548	0	1548	1548	0	1549	1548.03	0.18	1548	1548	0
	50	rnd	1563	1550.17	7.33	1568	1551.2	9.09	1565	1552.1	10.35	1561	1549.77	7.32
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0

Table A.1574: $f_{50.498}$: basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1561	1546.37	9.43	1566	1549.97	8.68	1567	1547.9	11.1	1567	1551	8.52
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1558	1547.17	7.62	1565	1549.93	7.82	1565	1548.33	11.01	1564	1550.43	9.27
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1566	1547.53	8.41	1566	1548.97	9.68	1568	1550.37	8.7	1565	1543.87	13.05
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1561	1547.97	8.28	1566	1552.03	6.07	1564	1549.53	8.07	1563	1550.17	7.39
		2op	1548	1548	0	1548	1548	0	1550	1548.13	0.51	1548	1548	0

Table A.1575: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1553.17	8.36	1565	1551.23	9.69	1568	1547.73	10.51	1565	1548.47	10.21
		2op	1548	1548	0	1550	1548.07	0.37	1548	1548	0	1548	1548	0
	50	rnd	1567	1548.2	7.42	1564	1552.67	6.17	1566	1547.43	10.62	1562	1547.4	9.25
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1565	1551.53	7.87	1564	1554.9	7.15	1565	1548.17	10.43	1564	1547.47	11.39
		2op	1550	1548.07	0.37	1555	1549.97	2.04	1548	1548	0	1548	1548	0
	50	rnd	1567	1549.5	7.82	1570	1552.9	8.29	1565	1548.33	8.47	1562	1547.57	9.65
		2op	1550	1548.13	0.51	1550	1548.13	0.51	1548	1548	0	1548	1548	0

Table A.1576: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1548.07	7.96	1560	1548.03	8.68	1560	1543.8	10.96	1566	1548.53	8.9
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1564	1548	7.82	1563	1550.63	8.47	1565	1549.87	9.9	1564	1546.97	10.68
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1561	1547.9	6.34	1567	1549.2	10.81	1566	1548.47	8.17	1565	1548.07	10.01
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1564	1549.37	7.45	1563	1546.23	9.67	1566	1548.97	8.72	1568	1546.17	10.18
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0

Table A.1577: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2775	2745.43	12.37	2771	2746.93	12.52	2771	2742.87	15.5	2757	2740.63	10.76
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2759	2741.7	10.47	2758	2742.2	12.08	2764	2741.27	12.31	2765	2742.07	13.61
51	20	rnd	2768	2741.37	12.51	2762	2745.47	9.22	2767	2740.8	14.58	2764	2736.3	14.14
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2771	2747.43	11.83	2764	2745.03	12.43	2763	2741.27	9.71	2763	2743.03	9.73
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1578: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2762	2740.1	11.47	2780	2743.27	15.36	2758	2736.83	12.41	2767	2735.77	15.51
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2763	2741.9	12.86	2771	2741.37	12.52	2771	2746.7	13.43	2763	2733.1	12.9
51	20	rnd	2767	2741.63	15.54	2771	2745.47	13.27	2764	2738.07	15.62	2773	2738.73	17.81
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2762	2735.87	17.63	2769	2744.83	15.57	2767	2740.6	11.32	2772	2741.27	15
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1579: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2769	2744.13	18.01	2770	2743.97	13.74	2766	2741.4	13.77	2766	2746.3	10.41
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2746.87	12.22	2768	2741.8	12.79	2765	2742.2	13.94	2763	2743.27	12.24
51	20	rnd	2764	2739.07	13.93	2774	2743.77	14.69	2763	2742.63	9.87	2767	2740.3	14.69
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2742.37	11.93	2770	2745.67	10.48	2760	2741.83	9.08	2762	2740.23	16.01
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1580: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2773	2740.8	17.45	2764	2741	14.67	2761	2741.47	11.95	2766	2741.37	19.15
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2743	11.76	2767	2741	15.57	2761	2742.83	11.19	2768	2740.03	15.66
51	20	rnd	2770	2739.23	14.03	2762	2740.9	14.84	2759	2737.03	15.24	2770	2739.6	18.61
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2775	2739.67	12.77	2772	2740.87	19.03	2767	2742.3	13.43	2759	2741.6	12.01
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1581: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2766	2745.63	12.84	2771	2742.47	13.99	2760	2740.33	12.4	2765	2738.1	14.19
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2763	2741.43	12.74	2766	2742.23	14.44	2761	2743.03	10.45	2763	2736.83	13.97
51	20	rnd	2769	2746.37	14.21	2766	2746.4	9.54	2766	2744.27	12.45	2768	2743.83	15.24
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2769	2748.07	12.73	2763	2743.77	11.5	2764	2744.3	12.49	2761	2739.5	12.81
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1582: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2765	2741.1	14.08	2767	2743.5	14.28	2767	2744.6	14.09	2770	2741.4	13.37
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2740.37	12.47	2766	2743.97	11.75	2772	2742.53	15.67	2763	2743.23	11.83
51	20	rnd	2767	2739.53	16.16	2757	2737.77	13.67	2768	2738.93	17.31	2773	2740.37	14.28
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2761	2738.43	18.42	2759	2740	11.5	2769	2740.9	15.63	2773	2742.83	13.22
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1583: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2810.7	14.63	2843	2814.37	14.41	2837	2814.13	15.34	2839	2813.9	12.79
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2837	2815.63	11.82	2838	2817.2	9.24	2840	2812.57	12.91	2835	2811.07	12.23
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2831	2813.33	12.46	2835	2818.8	12.93	2835	2810.7	18.77	2844	2811.87	12.11
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2837	2813.9	10.56	2838	2813	14.67	2832	2814.43	10.66	2842	2815.47	13.99
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.1584: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2834	2810.57	13.81	2838	2814.67	12.66	2845	2809.4	16.84	2835	2808.7	12.44
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2837	2814.03	16.05	2830	2812.37	13.31	2834	2808.13	16.34	2837	2805.97	14.87
		2op	2804	2804	0	2810	2807.2	3.04	2810	2804.2	1.1	2804	2804	0
51	20	rnd	2834	2810.23	14.95	2842	2815.77	9.68	2844	2814.2	12.73	2837	2809.1	16.26
		2op	2804	2804	0	2810	2806.8	3.04	2810	2804.6	1.83	2804	2804	0
	50	rnd	2827	2809.17	11.02	2837	2814.3	15.57	2834	2813.37	13.5	2829	2806.13	12.85
		2op	2804	2804	0	2810	2806.8	3.04	2810	2805.6	2.7	2804	2804	0

Table A.1585: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2836	2814.27	12.29	2837	2810.27	15.73	2838	2814.8	14.12	2837	2814.8	10.91
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2839	2815.5	12.86	2840	2817.27	10.52	2840	2814.5	14.17	2843	2812.33	11.7
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2837	2814.83	13.12	2848	2819.23	13.25	2836	2812.47	13.27	2833	2810.93	14.23
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2839	2812	15.11	2838	2815.6	14.18	2842	2815.5	12.56	2838	2812.47	17.08
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.1586: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2827	2813.33	10.91	2830	2811.3	15.6	2838	2810.37	16.58	2838	2809.8	16.1
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2828	2814.13	8.96	2829	2813.37	9	2846	2812.43	16.91	2845	2813.27	13.93
51	20	rnd	2833	2808.33	14.12	2834	2813.17	13.82	2838	2810.5	13.7	2838	2814.4	10.51
		2op	2804	2804	0	2810	2806	2.88	2810	2804.4	1.52	2804	2804	0
	50	rnd	2842	2809.33	12.25	2835	2811.87	16.38	2838	2815.2	14.43	2836	2813.47	11.78
	20	rnd	2837	2811.57	16.63	2836	2808.57	15.58	2833	2813.1	12.89	2833	2809.67	15.24
		2op	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
	50	rnd	2839	2810.17	15.4	2839	2813.03	13.71	2840	2811.47	11.83	2837	2811.77	12.66
51	20	rnd	2836	2811.8	12.79	2842	2810.63	12.68	2839	2810.17	17.16	2835	2810.37	13.57
		2op	2804	2804	0	2810	2804.6	1.83	2804	2804	0	2804	2804	0
	50	rnd	2836	2812.87	10.23	2838	2810	11.38	2836	2814.97	10.34	2847	2811.97	15.89
	20	rnd	2837	2811.57	16.63	2836	2808.57	15.58	2833	2813.1	12.89	2833	2809.67	15.24
		2op	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
	50	rnd	2839	2810.17	15.4	2839	2813.03	13.71	2840	2811.47	11.83	2837	2811.77	12.66

Table A.1587: f_{100_415} : transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2815.5	13.96	2835	2810.17	13.51	2837	2811.47	13.81	2825	2805.8	13.12
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2841	2814.5	14.51	2842	2815.57	14.3	2835	2805.03	15.11	2835	2814.8	11.06
51	20	rnd	2835	2815.23	11.38	2838	2816.5	15.7	2835	2811.67	13.78	2842	2814.87	15.36
		2op	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
	50	rnd	2842	2817.2	13.78	2838	2817.8	12.26	2834	2813.77	12.71	2845	2811.83	16.74
	20	rnd	2842	2817.2	13.78	2838	2817.8	12.26	2834	2813.77	12.71	2845	2811.83	16.74
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2842	2817.2	13.78	2838	2817.8	12.26	2834	2813.77	12.71	2845	2811.83	16.74

Table A.1588: f_{100_415} : basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2837	2811.57	16.63	2836	2808.57	15.58	2833	2813.1	12.89	2833	2809.67	15.24
		2op	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
	50	rnd	2839	2810.17	15.4	2839	2813.03	13.71	2840	2811.47	11.83	2837	2811.77	12.66
51	20	rnd	2836	2811.8	12.79	2842	2810.63	12.68	2839	2810.17	17.16	2835	2810.37	13.57
		2op	2804	2804	0	2810	2804.6	1.83	2804	2804	0	2804	2804	0
	50	rnd	2836	2812.87	10.23	2838	2810	11.38	2836	2814.97	10.34	2847	2811.97	15.89
	20	rnd	2837	2811.57	16.63	2836	2808.57	15.58	2833	2813.1	12.89	2833	2809.67	15.24
		2op	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
	50	rnd	2839	2810.17	15.4	2839	2813.03	13.71	2840	2811.47	11.83	2837	2811.77	12.66

Table A.1589: f_{100_415} : transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2682.97	12.42	2718	2688.87	15.28	2705	2686.83	11.3	2709	2684.5	13.12
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2708	2685.5	12.61	2708	2685.87	13.31	2704	2681.97	13.66	2710	2683.67	13.6
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
51	20	rnd	2712	2683.77	13.71	2700	2686.17	9.48	2705	2685.6	14.7	2709	2683.37	10.8
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2711	2690.43	13.68	2713	2688.63	11.68	2707	2684.73	14.17	2699	2680.3	15.67
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0

Table A.1590: f_{100_512} : basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2709	2682.67	13.24	2710	2684.03	15.27	2714	2686.57	14.43	2702	2680.13	14.46
		2op	2700	2690.13	4.28	2698	2689.9	3.98	2687	2687	0	2687	2687	0
	50	rnd	2702	2683.7	13.32	2710	2685	17.41	2716	2683.37	11.39	2708	2687.77	11.23
		2op	2706	2690.87	5.26	2702	2695.63	3.05	2695	2687.27	1.46	2687	2687	0
51	20	rnd	2706	2683.4	12.19	2711	2686.27	15.66	2715	2687.73	14.13	2706	2684.3	10.92
		2op	2701	2691.5	4.47	2700	2694.77	3.72	2699	2689.97	4.41	2687	2687	0
	50	rnd	2708	2678.83	14.52	2717	2684.03	18.94	2710	2685.57	11.71	2710	2682.93	13.94
		2op	2698	2692.1	4	2702	2695.67	1.75	2698	2693.93	2.69	2687	2687	0

Table A.1591: f_{100_512} : transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2713	2686.87	13.88	2706	2689.07	11.16	2707	2688.2	9.3	2703	2685.03	13.53
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2702	2685.6	11.51	2712	2693.47	11	2703	2686.97	12.54	2709	2682.37	13.88
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
51	20	rnd	2709	2688	11.42	2708	2684.97	11.7	2709	2683.2	15.57	2717	2685.5	16.35
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2708	2683.97	11.42	2712	2688.8	13.32	2705	2682.83	11.9	2703	2684.17	16.39
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0

Table A.1592: f_{100_512} : basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2702	2679.07	11.73	2713	2685.23	15.38	2710	2684.07	12.28	2706	2684.17	14.9
		2op	2699	2690.37	4.11	2699	2690.17	4.41	2687	2687	0	2687	2687	0
	50	rnd	2703	2684.47	11.17	2703	2683.63	10.34	2718	2683.87	12.34	2709	2682.33	14.12
51	20	2op	2698	2690.83	4.26	2706	2695.4	3.83	2698	2687.37	2.01	2687	2687	0
		rnd	2704	2679.6	12.54	2708	2686.37	13.78	2704	2682.53	12.66	2698	2678.97	14.18
	50	2op	2700	2691	4.5	2700	2694.67	3.2	2704	2690.27	5.03	2687	2687	0
	20	rnd	2703	2679.7	14.12	2708	2686.77	13.97	2707	2687.6	12.16	2707	2687.33	12.29
		2op	2698	2691.87	4.1	2700	2695.97	1.5	2700	2693.67	4.29	2687	2687	0
	50	rnd	2703	2679.7	14.12	2708	2686.77	13.97	2707	2687.6	12.16	2707	2687.33	12.29
	50	2op	2698	2691.87	4.1	2700	2695.97	1.5	2700	2693.67	4.29	2687	2687	0

Table A.1593: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2707	2689.37	10.71	2714	2689.07	12.02	2710	2684.97	14.67	2701	2682.2	15.84
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2711	2688.4	13.69	2708	2684.6	15.89	2703	2684.63	13.24	2711	2685.67	11.35
51	20	2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
		rnd	2706	2685.93	12.66	2702	2688.5	8.85	2711	2686.83	15.97	2709	2683.83	12.16
	50	2op	2699	2690.53	4.55	2708	2693.27	6.15	2695	2687.27	1.46	2687	2687	0
	20	rnd	2709	2683.93	14.92	2702	2681.03	13.44	2710	2686.57	11.45	2713	2686.7	14.63
		2op	2696	2687.57	2.16	2696	2687.57	2.16	2687	2687	0	2687	2687	0
	50	rnd	2709	2683.93	14.92	2702	2681.03	13.44	2710	2686.57	11.45	2713	2686.7	14.63
	50	2op	2696	2687.57	2.16	2696	2687.57	2.16	2687	2687	0	2687	2687	0

Table A.1594: f_{100_512} : basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2705	2678.93	10.71	2708	2684.4	13.04	2707	2687.03	11.52	2711	2689.1	16.7
		2op	2700	2691.97	4.33	2700	2690.83	4.8	2687	2687	0	2687	2687	0
	50	rnd	2702	2683.37	11.03	2706	2684.33	13.34	2706	2686.33	13.65	2711	2686.7	13
51	20	2op	2700	2694.37	2.66	2698	2691.57	4.43	2695	2687.27	1.46	2687	2687	0
		rnd	2702	2679.33	13.77	2703	2678.2	15.57	2705	2688.47	8.96	2713	2684.53	12.4
	50	2op	2700	2693.63	3.92	2698	2694.4	2.65	2697	2687.53	2.1	2687	2687	0
	20	rnd	2699	2684.83	11	2708	2686.27	13.67	2715	2687.6	12.83	2716	2685.53	14.8
		2op	2696	2695.13	0.35	2699	2693.57	3.51	2695	2688	2.61	2687	2687	0
	50	rnd	2699	2684.83	11	2708	2686.27	13.67	2715	2687.6	12.83	2716	2685.53	14.8
	50	2op	2696	2695.13	0.35	2699	2693.57	3.51	2695	2688	2.61	2687	2687	0

Table A.1595: f_{100_512} : transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17882	17786.2	42.05	17841	17796.1	32.29	17871	17789.2	39.13	17863	17792.4	41.13
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17871	17807.37	32.64	17878	17798.63	36.52	17877	17803.53	41.03	17855	17782.07	37.76
51	20	rnd	17857	17791.1	41.11	17876	17812.03	35.42	17834	17786.23	41.81	17848	17785.43	39.5
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17866	17801.43	38.79	17869	17792.57	39.73	17878	17799.2	47.72	17889	17802.93	49.79
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1596: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17870	17791.77	36.7	17886	17803	34.56	17887	17788.53	47.04	17845	17779.9	44.85
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17906	17800.47	45	17856	17799.73	35.11	17899	17799.47	35.64	17878	17785.33	46.37
51	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17899	17803.03	38.2	17871	17798.8	34.96	17866	17793.8	42.53	17860	17796.47	36.81
		50	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17859	17792.43	35.31	17847	17781.93	38.19	17921	17808.7	37.78	17876	17791	48.27
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1597: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17844	17790.5	29.01	17910	17801.73	44	17880	17794.73	46.31	17887	17806.9	31.33
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17886	17803.37	36.65	17879	17804.57	36.42	17882	17815.67	30.07	17843	17789.63	32.32
51	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17925	17796.87	41.37	17868	17797	43.42	17887	17792.33	47.55	17868	17796.07	36.27
		50	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17853	17796.07	33.06	17861	17801.5	33.06	17898	17808.4	30.79	17833	17792.77	34.09
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1598: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17880	17792.03	40.22	17880	17804.97	33.95	17886	17787.7	45.68	17882	17796.63	40.29
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17861	17798.5	33.77	17850	17798.53	31.82	17884	17790.37	44.28	17877	17796.9	45.64
51	20	rnd	17897	17797.2	39.64	17861	17796.23	35.58	17866	17793.8	41.1	17863	17800.83	36.76
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17921	17803.6	41.36	17876	17793.77	44.69	17866	17783	44.78	17893	17808.33	41.73
	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1599: $f_{508.354}$: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17879	17798.03	37.31	17899	17790.47	53.04	17880	17790.57	40.15	17866	17795.7	37.21
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17865	17800.23	28	17859	17809.8	30.08	17901	17814.67	40.25	17888	17806.53	43.87
51	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17865	17804.77	32.95	17862	17802.3	27.88	17849	17797	36.03	17906	17810.43	39.77
	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17836	17782.27	32.19	17874	17789.47	36.63	17853	17790.17	31.19	17867	17801.9	37.22
	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1600: $f_{508.354}$: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17853	17797.6	40.81	17877	17789.93	35.25	17843	17788.17	32.32	17862	17793.07	43.34
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17868	17797.73	45.04	17883	17806.77	36.28	17866	17800.07	29.95	17881	17793.03	46.05
51	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17841	17789.63	38.56	17834	17782.23	31.52	17904	17785.93	43.57	17883	17795.3	43.21
	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17899	17798.57	44.94	17851	17800.33	31.84	17861	17803.53	32.55	17872	17798.73	37.59
	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1601: $f_{508.354}$: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22138	22071.3	45.43	22170	22064.8	43.43	22183	22056.63	48.21	22133	22060.53	36.71
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22167	22082.03	39.55	22143	22070.47	43.39	22161	22075.33	47.57	22170	22080.4	39.39
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22164	22082	51.82	22146	22066.33	34.85	22170	22065.7	44.12	22193	22066.6	54.18
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22137	22069.23	43.42	22143	22057.6	48.01	22139	22065.53	46.61	22202	22084.37	46.51
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1602: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22166	22068.7	38.72	22124	22045.63	51.44	22139	22066.67	39.99	22154	22049.23	46.84
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22137	22064.57	52.77	22180	22076.07	47.99	22141	22059.43	50.97	22129	22064.27	35.39
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22138	22068.4	38.27	22178	22072.13	52.6	22133	22064.53	40.4	22123	22064.33	41.55
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22175	22065.27	54.99	22162	22065.77	38.94	22146	22061.5	42.27	22171	22066.8	48.14
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1603: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22140	22059.03	36.75	22184	22082.97	46.58	22146	22057.5	46.54	22145	22065.43	42.4
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22141	22068.53	46.9	22145	22060.7	37.7	22155	22067.73	51.82	22161	22070.83	43.84
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22144	22071.83	43.05	22157	22073.23	43.72	22183	22055.93	44.98	22144	22067.37	43.53
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22120	22066.67	35.27	22136	22065.27	45.87	22143	22047	58.62	22155	22060.2	46.45
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1604: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22163	22078.77	47.16	22160	22080.27	45.12	22130	22050	42.62	22133	22053.47	42.87
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22162	22057.17	46.23	22134	22058.33	42.67	22148	22055.83	45.7	22135	22063.97	41.79
51	20	rnd	22192	22068.07	47.16	22155	22073.33	51.26	22146	22065.43	42.14	22154	22061.8	50.3
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22148	22064.6	43.2	22160	22058.07	45.14	22168	22067.17	35.91	22168	22071.2	43.66
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1605: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22178	22084.53	48.81	22150	22075.37	52.84	22203	22078.03	50.14	22133	22049.13	43.7
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22163	22065.93	48.08	22153	22060.87	52.35	22130	22048.6	45.97	22128	22056.87	47.98
51	20	rnd	22199	22068.6	47.82	22199	22068.6	47.82	22143	22067.33	44.74	22200	22068.97	60.78
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22155	22076.93	44.65	22155	22078.97	42.31	22154	22072.8	43.81	22166	22062.43	45.63
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1606: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22164	22058.17	51.69	22155	22063.5	43.82	22137	22065.53	38.39	22220	22069	53.22
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22136	22061.77	35.82	22128	22063.03	44.63	22176	22077.53	40.82	22157	22060.33	47.29
51	20	rnd	22142	22076.33	44.3	22158	22068.6	49.43	22182	22087.17	43.58	22146	22066.73	47.13
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22128	22043.6	53.96	22169	22065.13	39.38	22176	22065.6	46.62	22148	22060.73	48.87
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1607: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24737	24662.73	44.97	24747	24639.5	56.87	24752	24672.57	49.29	24776	24660.43	50.57
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24759	24667.47	51.05	24771	24656.47	51.22	24728	24664.8	39.58	24747	24655.83	41.04
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24782	24673.73	50.69	24791	24669.97	50.42	24744	24664.77	52.91	24746	24655.37	44.26
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24777	24664.43	53.11	24746	24674.87	36.95	24795	24653.17	57.01	24746	24653.8	46.42
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1608: f_{737_355} : basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24735	24674.03	43.38	24731	24659.37	49.11	24762	24667.8	51.36	24741	24671.9	43.3
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24754	24651.7	60.03	24775	24656.33	39.57	24732	24663.2	40.92	24764	24683.3	43.68
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24808	24662.53	65.95	24731	24665.37	34.7	24790	24681.97	49.91	24747	24658.4	48.67
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24742	24655.17	49.91	24767	24664.9	48.45	24754	24658.63	51.39	24746	24671.27	47.59
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1609: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24770	24680.73	38.89	24744	24665.7	55.27	24752	24660.63	59.78	24772	24673.63	46.01
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24752	24663.53	50.09	24727	24665.1	38.52	24771	24647.43	62.5	24778	24664.53	54.67
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24763	24674.6	47.46	24770	24665.4	53.88	24800	24659.97	49.22	24746	24662	54.21
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24775	24683.23	49.99	24730	24671.83	38.58	24767	24679.8	42.61	24760	24675.63	53.21
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1610: f_{737_355} : basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24753	24667.9	54.58	24771	24682.13	50.59	24762	24668.57	53.11	24784	24665.27	51.19
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24729	24661.23	40.52	24744	24670.93	41.89	24788	24661.23	48.81	24754	24669.67	41.53
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24747	24667.6	49.15	24788	24678.7	46.57	24781	24663.57	53.57	24734	24666.8	46.16
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24745	24664.7	49.48	24811	24683.17	62.38	24812	24659	53.61	24736	24649.9	41.68
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1611: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24757	24675.83	47.13	24732	24657.53	41.06	24720	24640.67	46.92	24754	24657.37	43.04
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24739	24651.23	53.09	24732	24652.4	45.58	24759	24657.27	56.2	24751	24675.67	32.95
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24782	24672.13	54.39	24782	24672.13	54.39	24766	24673.33	52.29	24797	24667.97	61.86
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24754	24674.3	41.95	24754	24674.3	41.95	24757	24650.8	53.14	24734	24661.07	34.91
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1612: f_{737_355} : basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24809	24674.27	43.08	24787	24666.63	43.53	24750	24659.13	57.33	24796	24681.93	53.35
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24727	24646.43	41.62	24742	24662.17	45.47	24771	24656.37	59.25	24750	24666.93	45.65
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24778	24664.87	53.45	24755	24674.7	51.6	24775	24657.97	49.92	24729	24642.2	48.06
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24749	24661.1	46	24778	24668.43	44.53	24791	24672.3	52.43	24757	24665.63	49.5
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1613: f_{737_355} : transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47970	47857.6	61.56	47974	47860.57	83.4	47985	47841.37	83.33	48016	47857.93	80.98
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48057	47894.67	84.9	47986	47856.03	77.18	48017	47836	76.2	48025	47848.67	70.98
51	20	rnd	48067	47877.27	70.49	48067	47868.37	89.96	47960	47867.07	67.08	48024	47849.87	72.61
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48042	47865.43	71.56	48096	47840.37	97.09	48030	47855.27	79.85	48029	47847.23	90.2
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1614: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48003	47857.47	99.4	47998	47840.37	91	47965	47832.73	69.6	47964	47815.27	76.6
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47997	47846.03	83.05	47970	47854.77	63.47	47983	47837.47	66.1	47994	47866.53	59.53
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47959	47815.17	67.55	47973	47863.53	67.3	48090	47831.73	108.29	47999	47810	102.62
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	48012	47852.37	88.23	48002	47834.47	75.25	47957	47856.5	71.38	47979	47846.3	79.58
			47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1615: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48033	47858.03	76.76	48077	47848.13	100.18	47967	47832.2	79.98	47971	47849.3	83.01
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48000	47861.3	84.69	48025	47861.37	72.3	48032	47823.83	101.51	48043	47863.1	87.03
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	48051	47907.73	77.27	47993	47864.2	76.6	47960	47831.37	75.98	48098	47871.6	92.92
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	48021	47851.93	80.68	47990	47861.6	68.72	47940	47824.3	60.56	47979	47849.33	73.33
			47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1616: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47993	47850.57	75.47	48010	47877.1	74.91	48003	47828.13	114.68	48041	47867.13	74.19
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47982	47856.47	81.14	48081	47850.5	73.37	48033	47860.53	87.26	47993	47858.43	86.78
51	20	rnd	47982	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48059	47876	88.89	47978	47843.5	76.05	47970	47867	63.03	47996	47857.13	84.33
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48016	47851.97	74.44	47948	47848.83	67.03	48029	47825.8	63.68	48027	47845.27	96.44
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1617: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48002	47844.03	68.81	48002	47844.03	68.81	47998	47865.57	70.59	48008	47838.6	81.28
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47964	47864.73	63.01	47964	47864.73	63.01	47983	47848.3	68.07	47998	47858.77	61.59
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48035	47861	70.01	48035	47861	70.01	47962	47856.27	61.44	47942	47832.03	60.48
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48042	47841.27	77.04	48042	47841.27	77.04	47976	47809.13	85.75	47991	47810.1	89.97
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1618: f_{1343_354} : basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48067	47865.93	79.66	47977	47860.63	76.74	47978	47866.5	67.57	47976	47854.8	59.08
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47965	47854.07	64.58	47957	47855.57	70.13	48090	47887.67	82.34	47966	47838.6	63.15
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48092	47864.67	79.98	48092	47864.67	79.98	48112	47844.97	110.85	47945	47840.17	60.56
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47995	47860.03	93.25	47990	47844.83	80.31	48015	47871.93	64.9	48039	47866.63	91.73
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1619: f_{1343_354} : transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56133	55944.5	86.47	56108	55940.9	94.81	56055	55922.33	79.46	56131	55911.13	113.25
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56124	55930.8	81.75	56130	55927.27	102.67	56098	55902.5	89.02	56205	55937.6	104.6
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56100	55935.07	82.69	56086	55939.1	83.46	56147	55900.13	85.57	56088	55925.9	71.94
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56151	55970.2	79.4	56144	55959.33	88.91	56105	55913.97	85.75	56045	55929.27	67.48
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1620: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56093	55893.87	103.21	56148	55945	80.61	56182	55942.17	98.7	56047	55916.13	85
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56152	55916	105.66	56131	55959.53	72.93	56110	55936.77	76.84	56051	55898.37	77.95
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56065	55928.83	83.98	56104	55955.53	72.05	56120	55945.33	80.11	56077	55903.77	83.29
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56030	55909.7	59.99	56057	55941.67	87.74	56083	55909.87	72.49	56168	55943.4	116.23
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1621: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56168	55962.37	104.1	56088	55941.73	88.05	56080	55927.8	74.91	56125	55936.5	96.18
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56172	55960.07	92.73	56066	55931.37	76.16	56083	55955.5	81.91	56029	55916	87.14
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56099	55953.03	78.58	56098	55965	83.41	56168	55952.97	96.98	56068	55935.03	84.74
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56099	55933.73	76.18	56177	55936	89.32	56073	55933.33	80.87	56092	55925.3	73.22
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1622: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56139	55909.33	104.41	56107	55949.2	80.46	56020	55898.47	69.87	56155	55955.43	91.27
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56114	55947.03	86.19	56147	55923.97	84.33	56086	55908.3	84.58	55996	55914.43	64.7
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56108	55933.53	89.43	56092	55926.57	82.01	56091	55914.23	75.41	56109	55929.4	102.67
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56120	55946.63	82.67	56170	55908.63	89.4	56083	55945.7	60.2	56137	55959.2	78.54
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1623: f_{1577_354} : transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56123	55919.67	87.96	56123	55919.67	87.96	56129	55913.2	84.72	56070	55951.27	71.9
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56195	55923.87	111.28	56195	55923.87	111.28	56103	55914.03	84.23	56053	55928.33	69.87
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56193	55940.7	96.72	56193	55940.7	96.72	56091	55940.33	90.3	56061	55941.63	69.33
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56062	55915.77	74.41	56062	55915.77	74.41	56074	55928.83	69.66	56115	55956.57	79.61
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1624: f_{1577_354} : basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56143	55942.57	98.83	56139	55931.73	78.41	56100	55948.57	85.87	56075	55925.97	87.59
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56069	55937.1	100.55	56076	55938.93	75.2	56077	55947.6	69.34	56159	55938.77	86.67
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56059	55947.2	70.21	56059	55947.2	70.21	56060	55940.7	70.49	56136	55945.4	84.8
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56146	55944	88.23	56146	55942.13	75.78	56175	55940	97.49	56091	55929.03	98.32
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1625: f_{1577_354} : transRRGA+IM – Suspected Optimal is 57373

Results With Post Optimization and No Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46915	46585.07	210.3	46338	45650.7	385.58	42550	41535.4	557.67	42291	41102.27	584.48
		2op	46977	46628.4	218.75	46476	45865.8	404.08	43165	41973.17	562.01	42423	41258.03	547.35
	50	rnd	47025	46495.67	282.28	46596	46190.93	264.12	44129	42749.97	762.66	41961	40988.73	400.56
51	20	2op	46998	46625.57	212.29	46825	46265.23	278.27	44313	43230.93	688.61	41843	41003.47	505.47
		rnd	47058	46810.7	133.72	46978	46719	139.14	46037	45194.53	576.05	44119	42983.6	397.47
	50	2op	47141	46829.53	150.94	47034	46740.63	180.43	46049	45266.3	417.78	43772	43052.4	377.92
	20	rnd	47104	46720.77	187.86	46984	46648.83	205.73	46650	46095.27	355.64	43530	42655.17	423.5
		2op	47031	46819.6	152.64	47115	46754.7	157.9	46576	46075.2	351.45	43591	42692.97	412.73

Table A.1626: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47334	47229.17	63.82	47268	47114.37	80.23	47090	46901	139.88	46227	45675.77	336.15
		2op	47407	47298.3	47.9	47345	47228.87	72.02	47194	46992.77	136.71	46200	45771.13	264.43
	50	rnd	47382	47250.27	76.38	47388	47257.1	76.18	47228	47051.8	105.21	46717	46334.13	226.74
51	20	2op	47432	47320.13	47.19	47385	47302.4	45.34	47314	47179.33	79.66	46847	46398.97	242.38
		rnd	47361	47227.37	81.55	47450	47317.53	50.11	47248	47111.7	101.63	47028	46742.7	189.19
	50	2op	47381	47316.17	42.38	47394	47324.9	45.54	47295	47174.27	78.55	47135	46819.47	171.74
	20	rnd	47356	47250.73	65.17	47457	47352.8	51.61	47330	47175.13	88.93	47172	46972.7	121.61
		2op	47375	47324.57	30.76	47434	47364.9	38.96	47324	47238.27	62.07	47268	47016.27	148.44

Table A.1627: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46915	46540.03	208.72	46388	45747.73	443.43	42428	41737.87	536.87	42257	41036.1	639.18
		2op	47043	46572.73	195.95	46304	45788.27	393.33	42934	41788.97	514.35	42265	41060.43	512.4
	50	rnd	47031	46524.47	209.79	46711	46196.8	271.09	43859	42838.77	551.68	41815	40893.77	444.58
51	20	2op	47079	46645.07	210.66	46745	46243.33	299.39	44201	43318.77	684.75	41748	40970.6	380.54
		rnd	47014	46783.47	134.95	46934	46664.6	182.63	46206	45349.07	487.92	43847	42975.07	396.87
	50	2op	47188	46853.8	128.18	47118	46803.1	131.57	46146	45236.2	575.18	43485	42987.2	293.48
	20	rnd	47076	46719.2	195.53	47037	46734.07	183.98	46434	45929.5	374.66	43639	42548.57	488.56
		2op	47165	46787.63	187.45	47006	46751.13	164.46	46710	46076.8	385.4	43818	42689.87	446.68

Table A.1628: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47336	47222.2	71.43	47337	47154.17	90.68	47112	46858.23	181.61	46292	45620.87	375.41
		2op	47389	47317.63	39.89	47322	47216.33	73.47	47215	46971.4	144.08	46122	45649.27	269.79
	50	rnd	47448	47227.67	67.75	47383	47239.37	90.77	47238	46991.9	136.27	46712	46262.5	249.2
51	20	rnd	47350	47253.8	72.26	47381	47313.43	41.93	47275	47091.1	102.38	47111	46755.83	189.14
		2op	47399	47318.8	44.95	47433	47329.67	46.35	47317	47168.73	76.82	47184	46779.07	208.58
	50	rnd	47391	47263.23	63.7	47418	47351.17	53.87	47351	47202.07	76.16	47179	46972.73	128.72
		2op	47410	47329.3	39.65	47420	47366.7	38.78	47327	47224.6	70.2	47282	46984.47	155.39

Table A.1629: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47227	46947.53	156.4	47207	46928.53	144.33	45161	42348.2	857.34	41934	41016.53	343.16
		2op	47264	47027.17	142.89	47216	47010.87	157.78	43860	42506.47	758.22	41915	41290.43	368.14
	50	rnd	47222	46982.73	134.96	47176	46965.8	137.14	44191	43191.2	715.88	41832	41048.67	411.05
51	20	rnd	47314	47063.73	134.48	47305	47056.37	137.32	44572	43241.1	881.78	41384	40933.6	306.16
		2op	47350	47226	69.22	47383	47225.5	72.39	46782	46121.03	565.45	43786	42848.43	410.32
	50	rnd	47356	47303.67	34.25	47356	47303.67	34.74	46919	46397.83	382.15	43387	42867.23	330.08
		2op	47380	47263	67.31	47380	47262.77	58.52	47092	46543.63	262.77	43155	42314.5	398.59
		2op	47395	47307	56.6	47395	47293.83	61.97	46928	46500.37	466.11	42799	42318.17	297.57

Table A.1630: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47325	47230.9	56.25	47286	47199.1	55.2	47167	46908.97	129.33	45948	45309.37	369.02
		2op	47419	47333.63	32.57	47386	47301.13	40.1	47182	46986.43	125.13	45888	45273.03	287.18
	50	rnd	47371	47268.27	52.63	47396	47264.93	64.25	47241	47044.47	128.81	46555	46118.67	361.42
51	20	rnd	47423	47347.6	30.81	47400	47318.1	37.77	47266	47147.03	75.17	46379	46091.63	179.28
		2op	47324	47242.87	53.38	47367	47253.67	64	47268	47120.77	71.89	46886	46543.4	181.17
	50	rnd	47388	47337.97	29.23	47376	47330.93	27.55	47305	47240	35.18	46903	46633.2	169.73
		2op	47386	47299.27	40.3	47385	47256.83	56.01	47367	47167.77	91.13	47094	46790.07	135.63
		2op	47396	47356.27	18.49	47389	47323.6	33.57	47361	47249.3	58.84	47097	46889.87	111.2

Table A.1631: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147576	144813.23	1440.08	144597	141611.57	1473.44	125589	116082.07	5092.81	83651	75457.23	3739.29
		2op	146564	144922.47	1002.27	145272	141421.2	1871.7	126653	116369.07	5000.76	83507	75226.67	3313.21
	50	rnd	146291	144511.9	891.67	146528	143447.13	1334.67	136802	131197.6	3316.8	99532	84375.73	7002.05
51	20	2op	147305	144846.8	1190.47	146171	143299.53	1384.32	135684	130593.1	3794.83	95434	83851.47	5624.79
		rnd	148301	146603.07	953.52	147646	145573.3	979.14	142190	138049.13	2515.51	124235	106229.7	5988.96
	50	2op	147966	146243.27	1222.15	147621	145782.83	1054.9	142887	138650.67	2409.68	114972	105629.87	5313.99
	20	rnd	147862	145866.1	1098.52	148048	145713.23	991.12	147035	143063.93	1614.61	134807	122121.33	5431.17
		2op	147467	145888.3	811.62	148251	146236.83	1093.64	145674	142720.17	1858.56	129197	120352.2	5246.74

Table A.1632: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151021	150588.57	457.91	150721	149726.13	523.74	148731	146366.67	1563.86	139597	131513.23	4155.9
		2op	151087	150733.53	311.89	150905	149509.97	727.56	149405	147152.83	1582.74	139509	132214.1	4973.42
	50	rnd	151159	150737.87	373.18	150837	149988.93	766.15	150084	148506.4	1300.58	146674	139806.4	3218.21
51	20	2op	151090	150858.43	248.49	150915	150298.8	516.83	150514	149169.83	853.56	146930	141179.9	2906.41
		rnd	151066	150598.77	406.2	150933	150361.9	515.62	150599	149096.97	932.91	148056	145271.17	1906.62
	50	2op	151185	150833.23	309.99	150811	150110.13	501.18	150766	149321.43	763.36	149472	146137.3	1871.93
	20	rnd	151105	150862.8	306.92	151031	150521.6	385	150910	149693.6	834.97	149983	147796	1337.14
		2op	151235	150932.33	247.75	151077	150489.4	448.39	150812	149994.77	651.88	149849	147749.3	1419.62

Table A.1633: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	146716	144311.63	1606.5	144125	141646.57	1638.77	129328	118648.47	4079.37	82049	75074.67	3645.62
		2op	147400	144588.6	1393.14	145501	141931.37	1862.36	125340	116789.73	5695.35	83665	75692.43	3803.08
	50	rnd	147178	144374.77	1347.43	145475	143001.27	1297.75	137600	128605.53	4942.8	94339	82488.6	6015.81
51	20	2op	146775	144613	1200.17	144589	142554.43	1177.26	134315	129266	3939.1	94380	81662.23	5648.14
		rnd	148785	146344.83	1281.29	148149	146145.2	795.77	144308	139000.57	2452.48	116226	106176.47	5447.34
	50	2op	147531	146071.8	1168.17	148378	146096.7	1254.03	141905	137966.77	2994.37	111921	105367.97	4068.99
	20	rnd	148136	146078.9	973.48	147438	145789	770.73	146329	143232.97	1428.54	129936	120718.57	5660.11
		2op	148396	146240.4	1036.39	147189	145816.53	897.69	145975	143116.1	1494.03	128304	121067.63	5458.99

Table A.1634: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151077	150724.03	271.81	150519	149464.8	900.52	149665	146541.1	1857.12	140817	130458.87	4412.81
		2op	151105	150641.27	331.49	150587	149378.47	1014.79	149643	147217.13	1484.07	140388	130928.83	4906.68
	50	rnd	151149	150742	269.95	150908	150007.23	577.28	150388	148572.37	1074.8	147606	139511.53	4053.93
51	20	2op	151150	150734.3	383.59	150806	150057.73	637.02	150456	148915.5	1025.26	144287	139614	3235.78
		rnd	151121	150723	334.61	150818	150139.53	409.65	150704	149431.63	914.04	148154	145127.03	1948.77
	50	2op	151115	150562.9	396.45	151033	150293.87	544.49	150627	149370.13	1076.68	149101	146048.27	1676.58
	20	rnd	151149	150933.73	201.05	151093	150525.1	369.4	150844	150156.77	503.82	149610	147341.43	1419.68
		2op	151190	150901.33	265.77	151111	150521.17	320.92	150794	149943.37	758.97	149685	147375.6	1280.02

Table A.1635: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	148108	146269.2	973.78	148487	146224.77	1208.63	139718	132397.2	5611.98	85579	74674.87	4571.71
		2op	148354	146631.3	913.48	148359	146175.8	1024.52	140260	134396.57	4037.41	80781	74928.07	3215.52
	50	rnd	147607	145832.4	868.11	147482	145688.43	915.3	142393	133094.73	6901.31	90671	78190.3	6176.48
51	20	2op	147783	145746.73	933.13	147795	145864.13	997.94	140090	129789.47	9400.79	88095	78612.67	5017.52
		rnd	149490	148587.73	688.43	149490	148425.07	751.43	148531	146669.93	1075	118130	102223.73	5767.81
	50	2op	150151	148700.8	780.64	149921	148591.23	746.27	148469	147001.5	792.49	116045	102869.93	5852.85
	20	rnd	149419	147807.93	981.98	149402	148196.13	684.19	148710	146568.73	1207.39	127846	116290.17	6653.08
		2op	149321	148098	589.77	149215	148027.07	688.77	148304	146499.7	1084.35	125418	118158.1	5467.81

Table A.1636: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151108	150781.3	278.74	150953	150633	252.37	149502	147883.8	956.72	132936	126970.13	4955.83
		2op	151146	150886.27	184.95	151017	150426	500.05	149414	147825.47	993.95	132869	127031.13	3364.62
	50	rnd	151168	150972.23	150.81	150976	150674.07	251.65	150204	148404.23	1652.12	144328	136781	4103.39
51	20	2op	151167	150996.43	160.88	151072	150670.93	351.84	150489	148990.3	990.69	142843	138038.37	2720.79
		rnd	151160	150851.2	268.52	150984	150748.47	182.94	150714	149982.3	488.62	145985	141225.8	2208.3
	50	2op	151177	150947.5	141.21	151172	150830.4	182.97	150822	150017.83	499.16	146943	141643.77	2090.94
	20	rnd	151299	151035.27	119.29	151108	150794.63	227.05	151068	150178.17	481.95	148982	145386.17	1975.24
		2op	151190	151035.9	89.32	151119	150851.67	160.14	150875	150206.63	349.56	148697	145856.6	2111.72

Table A.1637: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162594	160590.4	852.33	160454	157138.8	1970.06	139729	129959.57	5350.88	86992	79924.93	3825.18
		2op	162194	160335.73	1139.1	160642	157485.8	1117.63	139384	129158.7	6659.15	88806	79457.13	4356.22
	50	rnd	162799	160661.43	1042.01	161098	159375.07	1180.74	152978	146516.4	3561.76	106330	93107.23	6573.15
51	20	2op	162666	160635.8	914.71	160827	158720.17	1106.46	153069	146053.87	3887.95	101859	92378.03	5516.5
		rnd	163557	161651.17	812.78	162813	161222.33	889.15	158770	154409.03	3407.64	127394	112078	7578.52
	50	2op	163265	161774.67	887.98	162752	161198.63	691.49	158890	153405.13	3146.52	129575	116547.87	5958.81
	20	rnd	163081	161626.3	723.76	163502	161509.43	949.52	160796	158563.17	1215.86	144511	134315.63	5950.6
		2op	163849	161979	949.2	162775	161337.8	859.53	161346	158116.03	1808.64	143588	135160.77	5832.86

Table A.1638: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167007	166408.43	345.7	166250	164951.9	704.16	164889	162811.37	1531.97	157288	146837.67	3853.97
		2op	166307	165956.23	319.03	166215	164895.4	924.15	163736	162302.27	950.92	154468	147430.73	4807.06
	50	rnd	167209	166596.43	323.61	166757	165828.1	627.91	166384	164645.13	1024.93	162648	157298.07	2589.56
51	20	2op	166463	166217.6	317.59	166132	165378.57	708.72	165542	164262.97	828.2	160512	156895.3	2494.38
		rnd	166934	166397.17	384.42	166671	165865.43	572.73	165890	164728.53	846.75	163418	160926.2	1581.93
	50	2op	166425	166084.47	263.59	166135	165379.03	544.12	165979	164614.73	828.3	164750	160863.1	1913.86
	20	rnd	167211	166612.9	306.15	166898	166209.43	493.94	166604	165625.47	778.06	165468	163414.67	1428.2
		2op	166495	166243.93	227.37	166458	165745.43	419.75	165982	165148.1	722.93	164886	162921.07	1320.73

Table A.1639: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162367	160476.9	837.1	160425	157176.4	1858.6	139172	128460.53	6529.4	86434	77188.17	3310.93
		2op	162405	160173.4	1023.14	159219	157199.67	1602.05	140449	129076.83	7386.77	85484	78174.87	3762.51
	50	rnd	161913	159992.7	1123.89	160747	158832.9	1301.58	149697	145220.33	3773.56	109904	91563.57	8119.67
51	20	2op	162278	160117.7	1025.54	160856	158999.53	1119.42	152152	145902.7	3020.07	100927	89213.5	6155.05
		rnd	163404	161757.8	842.58	163686	161605.9	839.62	158018	154613.8	2629.1	125517	113567.17	5162.15
	50	2op	162899	161760.77	832.34	162507	160915.17	1019.39	157692	153181.8	2843.74	127602	114974.5	4804.34
	20	rnd	163875	162252.47	727.58	162689	161392.2	865.71	161311	157899.8	1650.94	143437	134886.03	5471.71
		2op	163828	162007.67	915.67	163286	161319.73	806.4	160428	157844.07	1657.07	146761	134060.17	6232.18

Table A.1640: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166973	166338.37	431.37	166410	165184.1	796.38	164621	162654.57	1363.42	153956	146346.73	3902.98
		2op	166462	166017.1	381.51	166002	164495.9	1078.24	164316	162452.87	1271.8	153056	146465.43	5233.81
	50	rnd	167099	166587.87	359.04	166561	165433.53	615.9	165833	164139.17	1002.16	161657	157687.47	2087.33
51	20	rnd	166644	166151.83	282.17	166083	165299.77	559.22	165560	163819.27	951.17	159675	155646.07	2786.94
		2op	167105	166549.57	386.76	166881	166029.8	549.16	166099	165051.5	870.47	163914	160853.8	1795.53
	50	rnd	166514	166059.43	317.48	166132	165356.17	643.54	166036	164752.37	819.68	163882	161122.57	1840.12
	20	rnd	167195	166676.93	345.32	166987	166446.23	403.34	166683	165530.97	790.18	164807	163459.07	1015.94
		2op	166561	166281.8	183.11	166376	165844.67	422.44	166092	165272	491.89	165074	163071.9	1278.62

Table A.1641: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163400	161739.6	885.03	162847	161591.67	803.16	157216	151303	3275.77	87426	78068.13	4830.85
		2op	163303	161903.33	788.3	163633	161911.77	827.16	155830	149928.57	4956.88	83946	78341.33	3364.05
	50	rnd	162795	161326.93	855.82	162719	161209.5	895.66	157902	147804.23	7147.85	98779	86670.87	6397.53
51	20	rnd	163145	161234.9	987.15	163095	161118.67	1045.78	156801	147677.53	8330.59	100495	85405.93	7338.09
		2op	164445	163642	562.93	164445	163601.63	572.36	163441	161857.43	759.53	129382	115511.67	7454.46
	50	rnd	164475	163428.83	560.7	164655	163503.57	559.71	162741	161716.87	796.99	127367	115438.57	7160.43
	20	rnd	164153	163004.2	611.02	164153	162957.73	658.85	162975	161535.87	756.48	143452	133644.33	5770.74
		2op	164110	163046.93	614.56	164110	163046.1	615.15	162699	161534.8	694.27	142700	132057	7090.48

Table A.1642: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167076	166549.5	361.67	166951	166118.4	417.5	165388	163603.63	1226.16	153252	143731.3	3449.95
		2op	166462	166077.77	282.93	166268	165748.9	357.63	164528	162905.73	779.28	152181	143063.53	4340.3
	50	rnd	167259	166740.77	296.89	166942	166430.77	295.06	165938	164349.63	1137.66	158141	154359.13	2519.6
51	20	rnd	166586	166295.53	136.53	166254	165849.4	312.19	165754	164214.17	1391.72	159892	153826.1	3153.63
		2op	167164	166650.47	250.18	167053	166511.63	321.86	166333	165562.17	462.04	162031	155755.97	2910.26
	50	rnd	166454	166209.5	166.53	166374	166091.9	228.81	165944	165144.23	1261.65	160774	155143.23	2339.77
	20	rnd	167321	166834.6	239.15	166972	166594.97	220.12	166678	165836.3	489.66	165138	160862.43	2496.85
		2op	166575	166378.57	121.88	166561	166161.37	171.72	166108	165494.47	336.23	163680	160097.67	2670.82

Table A.1643: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	159177	158240.53	458.91	157014	155206.17	1200.41	139555	130820.17	7048.14	85896	77689.97	3863.13
		2op	159182	158349.7	546.53	157587	155625.43	1116.87	140186	130885.8	5704.48	87418	79870.7	3572.96
	50	rnd	159032	158071.8	539.57	158076	156829.87	662.29	152744	147966.6	2943.86	113386	91939.77	9528.79
51	20	rnd	159371	158341	530.39	157956	156932.43	623.88	152824	147214.43	3210.96	105883	91829.03	6332.56
		2op	159488	158712.23	561.35	159531	158385.03	595.61	155781	152303.17	2511.03	126767	117602.9	5262.83
	50	rnd	159687	158827.27	423.15	159085	158242.8	581.78	155405	152627.57	1818.3	129260	116871.37	5873.5
	20	rnd	159623	158891.43	523.97	159429	158574.83	494.8	157255	155716.33	944.13	142537	134747.53	4304.49
		2op	159568	158929.7	387.11	159412	158486.17	558.88	157657	155814.8	975.9	142078	133777.13	5367.89

Table A.1644: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162962	162448.23	246.1	162373	161182.7	943.38	160908	159298.83	982.06	154387	148131.8	3801.72
		2op	162951	162447.97	241.16	162451	161491.43	739.91	160917	159252.1	1531.73	152611	146949.23	2772.16
	50	rnd	162926	162687.23	173.57	162650	161870.77	494.48	161904	160419.77	992.54	158383	155307.2	1685.06
51	20	rnd	162908	162669.03	132.88	162477	161889.4	557.49	161893	160916.77	586.56	158554	154814.23	2205.79
		2op	162789	162471.63	257.16	162552	161896.83	497.79	162495	161179.13	701.9	159884	158194.23	1161.77
	50	rnd	162837	162423.8	276.02	162559	161947.03	474.29	162131	161181.7	596.64	160354	157831.4	1649.48
	20	rnd	163053	162657.1	169.56	162669	162217.83	248.13	162358	161744.23	448.92	160996	159453.03	894.77
		2op	162997	162715.27	188.05	162710	162299.17	223.1	162443	161755.5	515.29	160711	159345.67	925.08

Table A.1645: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	158673	157926.67	355.14	156674	155350	887.53	141772	130203.43	7877.29	88193	79394.63	3717.71
		2op	159066	158382.73	462.08	156927	155329.73	1138.33	144391	131080.67	6044	84824	78541.5	3630.67
	50	rnd	159026	158108.63	489.2	157636	156651.97	700.83	152558	146090.03	4354.26	106865	92144.73	6847.05
51	20	rnd	159170	158196.23	553.82	157573	156626.8	676.95	151241	146573.83	3146.39	103236	89415.43	6636.6
		2op	159448	158766.53	593.93	159303	158186.13	664.8	155651	152732.87	2061.05	129048	116570.83	5727.14
	50	rnd	159502	158868.5	380.15	159275	158281.13	580.63	154816	152456.3	2104.59	123016	115031.13	4429.12
	20	rnd	159533	158885.97	462.96	159529	158325.53	618.28	157850	156035.33	841.6	143518	134431.13	5566.14
		2op	159635	158835.8	440.5	159451	158371.57	421.34	157477	155909.33	998.74	143917	135704.6	5247.92

Table A.1646: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162794	162407.93	260.51	162242	161491.73	503.37	161512	159541.37	1061.81	154440	146558.4	3996.1
		2op	162908	162528.23	223.03	162259	161588.43	542.42	161271	159165.03	1114.83	153092	146423.87	3959.19
	50	rnd	162914	162635.73	126.85	162541	161882.8	473.3	161771	160802.8	612.57	158473	154751.13	2274.02
51	20	rnd	162984	162668.13	192.06	162662	161698.07	497.34	161800	160737.17	636.51	157661	154887.33	1992.24
		2op	162947	162520.6	182.53	162595	161898.3	399.3	162292	161378.57	524.45	160871	157996.6	1769.95
	50	rnd	162875	162549.53	169.24	162469	161883.03	496.45	162252	161018.67	825.99	160037	158075.17	1611.14
	20	rnd	163016	162624.17	342.78	162726	162190.63	281.62	162334	161767.93	447.36	161152	159282.97	1055.96
		2op	163024	162715.93	146.68	162753	162330.8	267.08	162306	161763.73	412.61	160832	159524.77	831.75

Table A.1647: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	159317	158485.1	457.68	159492	158243.27	557.35	153846	150925.5	1587.53	88162	77488.43	3764.45
		2op	159317	158458.23	510.16	159626	158494.7	582.71	154667	150907.83	1908.85	84278	76814.43	4312.87
	50	rnd	159213	158304.53	548.5	159239	158249.43	493.64	154612	150847.57	4028.51	102168	88381.57	7086.46
51	20	rnd	158940	158226.3	495.76	159095	158208.87	450.13	154491	148736.6	8565.26	102278	88167.33	7132.33
		2op	159941	159252.9	505.62	159941	159252.9	505.62	158324	157121.17	513.82	130917	118685.33	7250.69
	50	rnd	159877	159275.73	367.07	159877	159275.73	367.07	158011	157035.2	535.96	131711	116658.5	7621.86
	20	rnd	159628	158880.63	411.31	159628	158880.63	411.31	158175	157326.3	475.15	148895	137160.4	5859.24
		2op	159683	158966.57	448.84	159683	158966.57	448.84	158121	157375.17	440.99	146373	138493.13	4549.83

Table A.1648: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162786	162439.37	263.5	162606	162258.07	268.19	160704	159882.23	645.37	150851	145048.87	3524.45
		2op	162794	162493.3	241.17	162671	162183.7	310.71	161145	160078.93	646.45	149397	142387.57	3711.96
	50	rnd	162987	162710.23	154.45	162679	162327.4	231.67	161611	160352.17	995.18	156850	152946.33	3076.55
51	20	rnd	162917	162684.83	147.67	162695	162370.13	192.43	161627	160863.97	647.49	157074	152861.93	2603.25
		2op	162889	162596.17	158.3	162797	162470.2	206.97	162354	161735.97	276.78	157233	152755.77	2110.04
	50	rnd	162869	162608.23	135.27	162732	162489.27	160.53	162212	161720.5	295.78	158619	152779.73	2292.17
	20	rnd	162935	162735.67	133.71	162923	162508.57	203.17	162347	161942.9	214.37	159160	156638.17	2134.95
		2op	162943	162717.67	129.08	162873	162543.7	159.37	162259	161850.77	233.62	159834	157122.33	2179.37

Table A.1649: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	175384	174877.5	465.42	173785	172311.6	1071.3	159672	142466.13	8437.69	97024	87163.27	4836.45
		2op	175447	174940.93	398.82	173593	172138.27	1162.62	153433	140665.9	8267.43	98060	87513.13	3980.74
	50	rnd	175530	175010.17	368.89	174228	173274.3	614.84	169550	162788.5	4743.85	112629	99024.83	7640.69
51	20	rnd	175398	175122.73	228.75	174308	173635.1	535.91	167735	162102.13	3514.49	109695	99255.2	6040.42
		2op	175810	175399.47	247.84	175246	174578.47	424.24	172401	168557.27	2540.98	143199	125890.3	7064.78
	50	rnd	175704	175323.63	309.89	175435	174816.53	370.36	172482	168447.57	2298.37	140582	128336.1	5717.38
	20	rnd	175886	175401.93	319.06	175449	174835.87	432.12	173721	172457.4	1006.28	158320	148341.73	5789.84
		2op	175854	175459.07	375.57	175611	175033.13	308.68	173702	172601.97	729.4	161970	149679.83	6364.23

Table A.1650: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179691	179131.17	264.83	178940	178123.37	635.71	177266	175936.2	1022.55	168893	162717.3	4385.04
		2op	179605	179308.97	175.87	179053	178353.53	477.59	177557	175886.6	1109.87	170311	163986.77	3611.36
	50	rnd	179572	179280.33	266.83	179175	178711.03	464.18	178481	177371.43	709.87	174810	171397.37	1897.12
51	20	rnd	179873	179454.33	192.21	179381	178787.37	411.65	178358	177532.33	585.91	175509	171634.43	2077.3
		2op	179511	179141.6	260.29	179246	178772.47	340.86	178764	177893.13	549.31	176707	174722.47	1105.83
	50	rnd	179614	179253.4	291.43	179430	178656.57	520.69	178846	178048.23	595.68	176790	174100.7	1623.6
	20	rnd	179739	179407.87	145.62	179477	178996.8	246.06	178989	178360.1	600.67	177368	175863.27	1010.48
		2op	179763	179463.57	147.82	179434	179125.9	195.26	179247	178662	413.04	177901	176104.4	810.83

Table A.1651: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	175494	174910.53	393.86	173456	172189.9	1104.37	156562	141446.47	7837.47	94605	84359.73	4559.68
		2op	175366	174892.9	306.65	173395	172087.33	951.68	153488	142629.6	7399.94	92600	85372.3	3553.6
	50	rnd	175359	174978.37	325.97	173998	173165.4	754.84	167790	161872.03	3241.87	127391	99683.23	9123.4
51	20	rnd	175596	174975.43	265.89	174080	173300.3	538.81	167745	161846.4	4071.73	112886	96617.87	7705.1
		2op	175758	175286.13	340.76	175454	174708.2	444.57	172723	168950.57	2140.48	135762	125361.37	5711.03
	50	rnd	175801	175357.2	305.43	175410	174862.27	290.66	172600	169145.9	2029.9	144502	126471.7	5615.72
	20	rnd	175907	175473.1	319.63	175449	174960.8	264.33	173802	172654.3	665.94	157775	148342.67	5944.18
		2op	175883	175338.67	460.57	175661	175135.17	286.12	173669	172311.87	1004.96	157199	146053.67	6480.94

Table A.1652: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179364	179051.07	219.69	178874	178308.83	570.48	177593	175697.8	1333.36	169661	163524.8	4292.57
		2op	179719	179277.83	221.5	179202	178436.7	569.59	177517	176008.33	1012.75	170599	163967.67	4030.3
	50	rnd	179697	179272.33	226.81	179005	178545.67	404.2	178452	177335.03	730.43	173771	171269.8	1778.17
51	20	rnd	179673	179424.97	165.73	179279	178791.13	355.78	178218	177221.7	605.72	175405	170582.73	2541.34
		2op	179722	179225.23	232.2	179183	178669.8	414.66	178842	177864.67	956.07	176974	174322	1261.66
	50	rnd	179732	179327	204.9	179279	178772.17	463.74	178963	178157.17	627.76	176702	174120.83	1578.75
	20	rnd	179546	179365.57	165.85	179365	178931.07	274.81	179046	178440.57	401.77	177317	175883.5	916.2
		2op	179718	179452.5	151.47	179487	179065.27	311.89	179194	178501.2	498.29	177701	176093.6	957.31

Table A.1653: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	175439	174961.33	242.5	175146	174781.33	263.13	170379	168038.3	1814.57	91851	83722.8	5356.35
		2op	175373	174960.8	241.56	175254	174723.73	533.03	170273	167538.17	1965.76	92002	84310.7	4231.48
	50	rnd	175271	174851.23	194.55	175247	174813.4	271.4	171302	167198.7	6566.4	105803	95016.13	7167.74
51	20	rnd	175234	174817.97	320.78	175234	174830.67	224.58	170990	167012.93	8620.42	117816	94895.2	9106.23
		2op	175676	175297.03	205.06	175676	175297.03	205.06	173682	172891.13	378.28	154933	135302.87	9795.07
	50	rnd	175804	175350.37	229.11	175804	175350.37	229.11	173763	172856.77	478.39	154323	135544.53	9963.06
	20	rnd	175467	174926.67	247.63	175467	174926.67	247.63	173724	173059.17	387.43	163569	154602.93	6084.83
		2op	175338	174990.77	240.94	175338	174990.77	240.94	173388	172830.07	342.38	163531	154982.83	4920.19

Table A.1654: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179452	179136.77	156.58	179188	178858.7	183.01	177363	176433.07	521.74	166558	161081.97	4012.78
		2op	179680	179204.77	241.11	179351	179058.17	171.46	177310	176400.07	586.92	169032	160384.83	4488.94
	50	rnd	179598	179361.1	128.79	179423	179063.9	219.12	178001	177092.5	620.99	172508	169309.1	2535.39
51	20	rnd	179735	179472.13	190.77	179579	179117.03	206.06	178260	177116.57	973.37	173471	169824.5	2911.28
		2op	179459	179242.87	169.31	179376	179115.07	178.74	178673	178239.63	235.28	175086	168501.17	2862.86
	50	rnd	179870	179337.2	199.55	179584	179252.13	141.41	178824	178312.77	274.35	174191	168995.87	2469.61
	20	rnd	179660	179344.7	160.41	179601	179225.13	184.83	178871	178516.2	190.04	176445	172381.53	2941.92
		2op	179807	179517.07	110.78	179550	179329.27	116.44	179054	178577.43	233.46	176458	172200.97	2992.08

Table A.1655: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	328938	325844.33	1680.29	318983	309314.27	3751.15	252110	220884.67	16297.33	164776	154139.67	5612.12
		2op	329612	325687.8	1682.21	318869	309819.93	5225.5	245256	223695.63	10846.12	167739	156273.67	6198.86
	50	rnd	329438	326680.23	1681.56	326432	319008.87	3239.61	279089	268506.83	9686.08	173166	163086.87	5852.37
51	20	rnd	330625	326959.77	1614.22	324166	319221.2	2514.01	285840	268017.97	8609.7	183547	161604.9	7468.27
		2op	332374	329035.7	1686.47	331659	326903.33	2274.34	307731	294865.63	6426.98	219116	204601.1	8051.1
	50	rnd	333076	329067.27	2095.42	332044	326183.43	2454.07	305432	292861.1	7186.11	216605	202708.6	7166.85
	20	rnd	332682	329159.4	1668.86	331488	328297.87	1673.39	319413	312240.17	4311.64	256897	234637.9	10230.31
		2op	334830	329826.23	1900.31	331850	328706.1	1623.33	316560	310037.77	4197.2	254089	232972.67	12523.72

Table A.1656: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342113	340935.67	842.86	340940	338739.47	1060.93	335893	332548.53	2558.59	304674	292141.97	8466.52
		2op	342427	341224.23	861.59	340705	338867.6	1055.43	337966	332229.83	2719.98	310027	295332.87	9568.57
	50	rnd	342471	341528.5	584.55	342039	339680.2	1059.72	339096	335834.5	2444.16	327513	316918.43	6708.23
51	20	rnd	342702	341680	718.17	341585	339472.53	1320.35	340226	336948.6	1362.69	326604	317823.9	7556.49
		2op	342136	341129	692.03	341767	339801.67	1212.87	339745	337180.33	1742.75	332131	328169.27	2640.25
	50	rnd	342404	341188.7	673.34	341300	339352.3	1035.24	340007	338063.43	1391.97	334539	326656.97	3976.2
	20	rnd	342832	341912.2	520.81	341954	340574.87	980.52	341616	339251	1034.4	337368	331933.73	3047.01
		2op	342675	341982.23	629.46	342344	340565.83	966.85	341086	339340.27	914.1	336940	333807.2	1975.79

Table A.1657: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	328591	325676.6	1876.78	317760	307208.1	4339.3	246893	222810.7	12366.35	163480	152000.43	5365.3
		2op	328589	326352.83	1505.59	316109	310378.93	4418.03	248403	224273.77	12277.98	165864	153059.9	5673.59
	50	rnd	330516	326432.57	1515.16	324619	318270.33	2677.8	281117	267465.37	8569.75	170112	158220.7	6374.1
51	20	rnd	328805	325539	1847.03	324476	318279.7	2636.02	282667	269283.23	7599.7	177929	159967.87	7649.01
		2op	332669	328674.87	1836.55	330571	326643.63	1813.28	307307	293026.03	7143.41	215023	202322.3	8488.76
	50	rnd	332026	329065.17	1579.29	330683	326368.27	2524.92	308944	291836.3	10311.38	211684	199589.2	6445.31
	20	rnd	333607	329775.53	1435.25	331757	327968.93	1733.9	321221	310981.6	4872.22	256009	235306	9588.15
		2op	333465	330165.3	1387.36	332082	328373.73	1578.03	320296	311184.63	4264.58	251352	234070	11798.45

Table A.1658: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342151	340958.5	868.14	341341	338558.53	1138.56	337554	332281.47	2533.27	304887	289135.5	8389.93
		2op	342556	340859.87	988.71	341159	338578.23	1413.21	336495	330890.27	3526.07	306717	292283.77	9436.89
	50	rnd	342459	341530.37	660.65	340886	338955.73	1248.77	339481	336281.07	1574.11	323671	314920.03	6588.43
51	20	2op	342298	341423.13	620.5	341918	339482.13	1188.63	339004	336130.8	1933.8	321672	314422.9	5711.29
		rnd	342453	341009.47	717.61	341728	339615.03	1105.37	340011	337794.67	1732.97	331992	327461.97	3884.77
	50	2op	342123	341062.63	643.94	341161	339774	1002.25	340792	337915.37	1823.36	333555	328014.17	3905.7
	50	rnd	342584	341674.07	603.14	342034	340628.1	681.67	341197	339330.53	1221.39	337807	332616.97	3652.6
		2op	342502	341842	504.22	342082	340741.57	862.54	340672	339182.4	866.45	337112	333562.13	2345.46

Table A.1659: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	331710	328230.53	1965.96	331710	328231.53	2015.63	292936	276526.87	15122.56	164703	154965.47	5160.97
		2op	332181	328439.9	1920.81	332181	328354.77	1942.56	299015	280357.17	20525.63	162864	154786.2	4865.99
	50	rnd	330560	327631.1	1528.32	330560	327566.5	1515.52	307552	278428.7	18281.03	172030	157684.27	6002.23
51	20	2op	331234	327974.93	1825.19	331234	327951.6	1799.76	304890	273937.47	25710.92	164622	156103.57	4811.2
		rnd	334611	332129.43	1411.1	334611	332129.43	1411.1	327753	323951.37	2184.52	228550	208002.13	10670.92
	50	2op	333949	331651.47	1390.66	333949	331651.47	1390.66	327722	323280.43	2720.64	225314	207888.7	11326.06
	50	rnd	332556	330253.23	1607.66	332556	330253.23	1607.66	329002	326860.13	1393.36	263243	242063.1	11754.04
		2op	333634	330158.4	1886.94	333634	330158.4	1886.94	330160	326399.23	1700.21	260935	241752.33	9840.94

Table A.1660: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342167	341237.27	701.96	341639	340387.37	776.45	336865	333376.23	2029.16	297592	284955.7	9178.54
		2op	342401	340986.93	691.42	341884	340329.03	882.15	336707	333244.9	2472.09	297919	285163.8	7124.27
	50	rnd	342570	342018.63	366.02	342299	341222.2	588.13	339576	335039.7	2586.62	319397	310171.33	7504.93
51	20	2op	342708	341811.93	412.5	342109	341098.9	536.19	338466	335853.23	2500.15	321169	309684.93	5376.02
		rnd	342440	341545.43	625.86	342070	341184.17	598.32	340535	339107.7	1423.39	321883	299731.77	8468.96
	50	2op	342566	341386.9	654.83	342332	341181.73	719.18	341092	339289.13	1096.15	323582	301696.47	9908.06
	50	rnd	342379	341929.63	303.71	342494	341697.97	465.11	341418	340126.83	743.13	334583	312811.77	10897.52
		2op	342555	342130.53	380.42	342412	341679.63	387.07	341285	340090.43	769.88	333476	315581.47	12285.82

Table A.1661: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	214712	211470.23	1926.58	211728	200530.13	4071.26	166866	154881.57	5741.27	154147	148324.67	3545.4
		2op	217833	211488.03	2538.02	208034	200536.47	4794.68	165323	155090.83	5003.23	158716	149148.93	3794.25
	50	rnd	215848	211085.77	2461.36	211289	205581.6	3332.31	181535	170088.53	5658.89	151669	147319.8	2879.14
51	20	rnd	219307	211107.2	2849.25	211372	206264.8	2748.75	179985	169525.3	5843.22	152280	147228.87	3172.76
		2op	220503	216958.43	2269.66	219446	214809.9	2275.41	202751	193180.5	6450.82	173148	166528.13	4019.45
	50	rnd	222679	217290.8	2368.43	219332	214946.67	2237.55	203057	193912.6	5162.52	177254	167656.53	3980.78
	20	rnd	218714	215591.67	2016.5	219749	215020.43	2184.26	211036	205063	4048.01	174602	163730	4365.05
		2op	219619	215520.37	2381.45	220892	215358.63	1947.69	209853	204032.5	3589.12	177802	166513.8	4896.38

Table A.1662: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226296	225079.8	715.22	226126	224455.97	968.8	225017	221394.6	1829.28	212289	203822.13	4980.35
		2op	226441	225530.47	582.85	226323	225107.57	1007.62	224480	222538.9	1385.35	211507	205115.6	4008.85
	50	rnd	226932	225128.37	836.61	226209	224792.17	790.39	225815	223596.87	1138.27	220397	215413.83	3835.14
51	20	rnd	226539	225762.13	443.17	226731	225389.37	694.35	225988	224255.73	821.87	221518	215422.67	3308.6
		2op	226744	225058.1	853.71	226499	225326.63	631.94	226011	224489.33	832.51	222833	219285.97	2485.53
	50	rnd	226356	225806.23	497.28	226922	225729.7	636.05	226482	224917.57	790.32	224078	220773.8	2607.39
	20	rnd	226584	225108.1	894.08	227555	225740.4	807.61	226436	224774.77	957.44	224548	222576.77	1297.31
		2op	226713	225743.4	533.6	226490	226068.1	431.31	226533	225502.4	519.09	224871	222867.1	1438.41

Table A.1663: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	215778	211124.1	2848.94	208018	200401.37	3927.47	162888	152996.3	4337.26	152313	146440.9	3259.75
		2op	214361	210602.5	1915.21	208311	200596.03	2990.54	164863	153921	4757.98	154537	146931.4	3324.62
	50	rnd	215109	210613.83	2267.93	210117	204716	3409.05	179541	168566.27	7293.46	153420	145734.13	2876.24
51	20	rnd	213744	210556.17	1891.24	210501	205372.9	3110.38	180364	169234.73	5581.58	154756	147033.3	3499.26
		2op	220015	216657.5	1618.88	219673	215006.6	2378.64	206924	193295.57	5097.32	173240	165947.27	3857.14
	50	rnd	220417	216293.83	1927.64	218019	214474.47	2236.96	199583	193739.87	4037.91	170951	166150.97	3453.96
	20	rnd	222089	215488.1	2618.44	219889	215478.43	1965.02	210151	202362.33	3691.16	170799	163447.73	3893.2
		2op	220683	215739	2090.81	219116	215146.6	3125.28	211406	203806.93	3596.5	172379	163415.6	4427.34

Table A.1664: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226204	224988.77	721.79	226110	224377.9	1016	224464	221642.93	1473.81	212219	204990.27	4228.1
		2op	226628	225777.67	527.12	226473	225005.5	821.35	225178	222761.67	1237.18	211186	204075.6	4063.61
	50	rnd	226699	225388.43	611.95	226609	224846.03	711.39	226415	223814.37	1177.11	218755	212300.53	3336.66
51	20	rnd	226624	225750.07	616.9	226365	225458.27	573.96	225294	223598.13	1270.76	219218	214900.8	2614.1
		2op	226863	225160.27	852.16	226451	225164.6	839.01	226064	224351.37	738.14	224134	219989.07	1923.59
	50	rnd	226660	225719.3	567.45	226884	225821.13	549.25	226510	224898.27	820.64	223540	219907.33	2254.12
	20	rnd	226482	225062.33	942.93	226524	225523.6	674.11	226504	224814	950.37	223784	221722.3	1300.83
		2op	226374	225851.53	309.67	226712	226176.03	296.2	226547	225354.07	585.26	224598	222434.33	1504.42

Table A.1665: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	225165	220709.03	1813.01	223638	219852.07	1896.56	175161	164785.23	6502.22	153546	144947.03	3295.51
		2op	225404	221267.13	2036.96	223751	220399.8	2033.94	177171	164419.4	7619.45	154687	147373.1	2862.03
	50	rnd	222494	218192.63	2071.83	222396	219100.47	1761.89	185214	170950.2	6392.43	150325	145545.13	3299.49
51	20	rnd	223399	219307.33	2299.31	223396	220115.93	1785.65	182979	173972.67	6206.09	154091	146741.9	2879.96
		2op	226192	224971.6	890.21	226192	224954.17	964.6	216699	205090.97	9000.31	174303	165962.03	3441.06
	50	rnd	226654	225595.17	717.74	226654	225580.13	719.27	219513	207382.63	6872.98	172620	166388.8	3576.8
	20	rnd	227024	224749.8	890.91	226451	224710.2	886.94	221363	214173.67	5337.33	166685	160819.37	3534.24
		2op	226773	225083.9	964.05	226773	225062.9	960.65	218589	213642.83	3878.54	171607	163067.13	4139.21

Table A.1666: *bx842596_4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226670	225205.93	851.16	226561	225064.8	1053.1	223959	222019.53	1286.85	209555	199635.13	3884.96
		2op	226752	225888.17	446.34	226691	225808.37	456.81	224029	222759.6	871.56	207742	201156.2	3910.53
	50	rnd	226916	225392.87	732.09	227024	225237.37	936.51	225353	223459.27	1289.5	214329	210177.07	3465.3
51	20	rnd	226272	225905	316	226849	225959.73	349.02	225337	224250.2	667.74	217873	212558.37	2559.1
		2op	226836	225260.3	927.34	226573	225466.37	667.93	226158	224822.63	835.93	220846	216060.03	1913.07
	50	rnd	226887	226099.97	328.45	226887	226110.73	342.62	226487	225399.53	558.82	223846	216701.9	2222.19
	20	rnd	227383	225419.07	645.27	226449	225131.4	782.06	226015	224467.73	880.3	223092	219125.13	2255.47
		2op	226430	226017.17	244.35	226448	226005.6	251.06	226523	225324.27	621.64	223639	219803.2	1948.05

Table A.1667: *bx842596_4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	431429	426803.23	2516.26	404868	390429.93	9986.65	336522	330596.23	3715.86	343851	330899.33	4637.24
		2op	433194	427300.43	3045.04	401333	388022.13	8513.02	342578	336211.6	3194.46	342519	334878.1	4183.67
	50	rnd	435109	428529.97	3060.12	418456	408841.6	5334.85	346110	336743.27	5443.71	345067	329337.83	4795.05
51	20	rnd	434140	427669.67	3033.91	419376	410891.73	5169.71	346958	337203.1	5101.08	344117	333180.87	4210.85
		2op	436363	431074.6	2551.63	431802	425461.2	3640.83	390027	369170.3	9835.6	363952	351035.73	4840.55
	50	rnd	436258	431820.03	2391.44	432271	426149.17	3272.62	382508	369924.37	7884.46	363366	354951.23	3985.97
	20	rnd	438444	430271.3	2482.24	435302	428352.7	2770.52	408913	395445.07	7200.24	359452	346502.73	4003.62
		2op	436875	431216.4	2461.8	433056	428289.57	2490.85	410367	396664.33	6868.9	354512	348197.6	3878.07

Table A.1668: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441014	438709.1	1345.97	441436	438150.1	1639.82	438090	434995.63	1532.09	422400	413272.37	4914.59
		2op	438659	437918.8	478.44	438303	437543.37	511.32	437153	434959.13	1350.94	424157	416355.43	4972.53
	50	rnd	441085	438385.83	1269.67	440537	438383.73	1192.35	439854	437394.17	1394.82	432552	426859.93	3191.36
51	20	rnd	438852	437926.43	408.47	438931	437520.57	558.57	437905	436651.97	750.74	432091	428093.43	2509.75
		2op	440692	438319.87	1186.39	440499	437915.83	1244.84	440292	437819.57	1371.67	436460	432566.7	2111.53
	50	rnd	438919	437898.53	465.34	439388	437697.53	686.93	438291	437124.83	616.02	434890	432426.9	1453.12
	20	rnd	440822	438381.9	1276.54	441543	438701.13	1305.29	440231	438379.17	1133.36	438374	435013.9	2068.28
		2op	438528	437994.1	281.81	438645	437936.17	327.4	438394	437484.93	484.54	436703	434707.23	1500.12

Table A.1669: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	430844	426179.3	2155.21	400314	387415	9213.25	338752	331313.77	4497.29	339504	330320.5	4924.71
		2op	430427	426388.67	3046.97	407779	388526.2	9950.04	339873	333756.37	3448.64	339510	332304.87	4210.6
	50	rnd	433365	426725.93	2687.13	416304	407566.57	5805.1	351510	335338.3	6642.55	339114	329155.8	4199.76
51	20	rnd	435457	428043.9	2720.37	420455	408331.7	7439.59	349977	336428.03	5244.99	338367	331631.53	3756.99
		2op	437446	432124.3	2729.65	434262	425306.6	3936.5	386483	370534.73	9173.68	361371	351461.17	5473.93
	50	rnd	435214	430987.57	2100.73	432056	425935.43	3179.83	388904	371635.5	8778.67	360487	354512.77	2985.92
	20	rnd	434417	430661.8	2033.05	431520	427073.7	2530.94	406284	392923.87	8373.24	354868	345343.8	5191.67
		2op	435283	431060	2541.18	433942	428857.97	2100.86	409598	394196.53	9151.04	357455	350057.43	3928.8

Table A.1670: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441331	438796.7	1042.68	440780	437996.03	1471.42	438173	434436.27	1750.68	424759	413943.87	5761.54
		2op	438836	438063.43	415.66	439047	437643.73	736.04	436729	434713.13	1254.83	424511	413909.3	4121.88
	50	rnd	441252	438682.27	1253.83	441052	438467.43	1301.7	439057	436931.47	1369.92	432277	423949.43	4609.35
51	20	rnd	439074	438111.7	393.96	438860	437667.1	451.63	437733	436357.27	943.03	432668	426309.5	3097.17
		2op	442088	438571.6	1329.39	440492	438323.93	1277.32	439636	437484.57	1163.95	436097	432248.83	2276.28
	50	rnd	439106	437928.47	397.47	439467	437848.67	540.8	438769	437490.53	669.51	436177	431825	2253.84
	20	rnd	441849	438827.97	1162.99	441084	438430.07	1245.87	440272	438219.47	1162.38	437964	434344.77	1841.87
		2op	438758	437991.83	313.68	438676	437842.9	414.9	439356	437640.47	698.17	436913	434857.73	1186.72

Table A.1671: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	437707	434721.7	1748.96	437090	433630.27	2095.54	355499	338626.1	6123.8	342098	331414.93	5146.53
		2op	437302	434995.17	1826.16	436187	434124.97	1340.68	352029	341432.7	4845.7	339379	332591.23	3696.01
	50	rnd	437285	434352.97	1653.22	436837	433900.03	1935.98	355913	340403.13	8489.4	333643	327366.8	3470.27
51	20	rnd	439596	435099.2	1828.13	436979	434413.13	1493.96	361607	342583.53	7913.32	338501	331289.7	4005.4
		2op	440519	438443.33	1152.44	440519	438363.2	1191.94	415508	394706.87	12016.61	357709	350409	4212.49
	50	rnd	438748	437502.67	766.66	438733	437566.47	830.09	414034	394209.3	11886.74	360857	353334.03	4518.95
	20	rnd	440181	437977.93	1521.47	440176	437940.03	1528.25	423566	411330.23	9412.18	357630	345763.2	4816.27
		2op	439855	437782.6	1072.77	439808	437596.77	970.47	423411	409859.73	8838.44	358770	348967.77	4700.82

Table A.1672: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440451	438420.27	1312.36	440302	438651.87	965.17	438299	434938.7	1443.19	415475	407564.87	4190.78
		2op	439071	437993.07	412.32	439131	437870	550.71	437092	434587.37	1714.31	416551	409613.23	4315.62
	50	rnd	441123	438904.37	1233.96	440977	438531.77	1624.85	439228	436579.37	1658.26	429729	423661.6	3185.39
51	20	rnd	438834	438062.73	420.41	438492	437974.4	277.19	437925	436391.9	756.42	428883	422755.2	3195.98
		2op	441005	438838.77	1174.05	440943	438896.27	1192.68	440550	438101.77	1358.41	431048	421136.8	4334.01
	50	rnd	439298	438007.67	353.54	438520	437909.17	266.94	438488	437348.9	486.69	431823	423175.97	4832.71
	20	rnd	440755	438859.37	1139.77	441177	438754.23	1339.36	441121	438223.43	1333.16	436595	428407.2	5403.16
		2op	438757	438046.3	284.15	439018	437987.3	346.75	439140	437382.27	521.98	435254	430926.47	4096.93

Table A.1673: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	114594	112048.47	1137.22	111386	109082.63	1491.42	96956	91612.93	2230.84	92983	89488.53	1406.45
		2op	115494	113257.2	1043.3	112472	109841.77	1814.83	96114	92478.33	2165.06	93054	90017.73	1818.92
	50	rnd	114702	112337.53	882.25	113401	111430.23	1021.86	102644	97683.37	3014.96	90860	88308.13	1718.82
51	20	2op	115345	112669.5	1145.87	114273	111550.9	1326.66	102781	98455.3	2072.74	91899	89407	1424.91
		rnd	115192	113837.97	649.12	115291	113509.87	849.23	110230	106234.8	1923.37	100058	96612.97	1948.43
	50	2op	115963	114482.5	710.2	115353	113998.67	612.16	111752	107579.33	1987.7	100500	98062.2	1461.41
	20	rnd	114975	113536.63	871.31	115555	113606.6	1072.35	113115	110492.43	1425.06	98135	95031.7	1578.93
		2op	115223	114305.9	611.38	115887	114175.1	851.65	114062	110859.27	1704.71	99503	96379.23	1387.41

Table A.1674: *j02459_7*: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115917	114914.27	478.1	115549	114677.17	473.27	116066	114202.93	605.84	111310	109303.5	1130.29
		2op	116365	115556.13	227.15	115837	115364.7	273.94	115632	114816.67	456.29	113081	110610.87	1356.73
	50	rnd	115603	114850.8	431.59	115839	114798.8	426.6	115611	114675.67	512.85	113978	112562.03	1024.8
51	20	2op	115856	115471.67	195.45	115966	115528.33	233.79	115724	115146	273.53	114268	113230.7	575.77
		rnd	116000	114779.17	659.36	115898	115072.23	491.29	115516	114563.47	528.96	115064	113598.1	1085.57
	50	2op	115713	115437.5	173.6	116478	115633.77	262.9	115666	115247.2	215.36	114965	114191.3	559.52
	20	rnd	115724	114903.17	436.63	115787	115074.9	495.86	115773	114845.07	495.86	115145	114040.4	640.24
		2op	115840	115512.1	162.73	116451	115800.37	206.29	115744	115371.9	222.86	115521	114682.17	498.47

Table A.1675: *j02459_7*: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	114160	112683.37	940.58	112203	108923.3	1358.53	96421	91491.47	2057.01	93595	88936.83	1600.28
		2op	114775	112976.47	1074.59	111695	109585.73	1556.1	95202	91828.83	2007.87	92724	89657.4	1419.4
	50	rnd	114482	112523.77	1076.36	112835	110134.97	1604.02	101498	96202.1	3264.58	90488	87858.57	1770.03
51	20	2op	115145	112917.17	1130.69	112747	111071.9	1177.32	100924	97031.53	2355.83	91196	88809.63	1336.65
		rnd	115112	113752.1	1015.91	115103	113231.7	923.58	110121	106351	2678.97	99769	96070.37	1688.56
	50	2op	115685	114349.13	703.81	115438	113942.9	874.34	111890	107209.57	1999.16	100099	96849.4	1400.82
	20	rnd	114970	113561.5	814.74	115185	113754.73	932.91	111835	110104.77	1135.07	97853	95085.23	1250.93
		2op	115754	114166.23	902.73	115645	113973.63	985.11	113668	111379.63	1516.72	98707	96095.13	1815.31

Table A.1676: *j02459_7*: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115811	114915.53	515.9	115836	114903.7	543.61	115007	114196.33	491.14	111075	109167.2	1461.86
		2op	115785	115515.9	164	115616	115292.63	197.33	115558	114639.47	446.27	113050	109989.7	1547.78
	50	rnd	115753	114846.67	461.52	115673	114922.57	512.21	115558	114233.7	574.53	113270	111978.5	1144.19
51	20	2op	116072	115503.53	220.28	116023	115508.83	218.75	115692	114985.17	297.36	114534	112710.07	1020.4
		rnd	115955	114928.97	599.5	115910	115024.13	514.93	115649	114680.83	514.46	114904	113635	782.72
	50	2op	115933	115467.7	225.67	116152	115753.77	243.91	115717	115247.17	256.06	115412	114220.8	533.99
	20	rnd	115968	114971.63	526.88	115737	115016.27	410.19	116040	114832.03	547.72	115226	114154.1	581.95
		2op	116078	115466.8	211.61	116487	115793.47	202.72	115986	115327.03	251.98	115435	114725.93	390.09

Table A.1677: *j02459_7*: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115732	114541.9	577.51	116085	114643.8	705.72	101180	95573.2	3475.57	92446	89009.6	1713.8
		2op	116018	115178.1	447.19	116011	115133.37	399.87	104896	95468.13	3211.42	93023	90265.33	1731.41
	50	rnd	115277	114261	644.63	115374	114365.9	699.22	102924	97760.83	3885.04	91473	88006.9	1551.69
51	20	2op	116016	114784	581.06	115998	114738.73	512.13	104841	98002.4	3496.05	92008	89491.1	1307.32
		rnd	116044	115131.8	451.13	116044	115069.97	411.4	113853	111827.43	1581.75	100564	96203.3	1787.54
	50	2op	116134	115447.73	271.51	116134	115441.97	276.14	114590	110993.73	2439.19	99390	97502.9	1559.2
	20	rnd	116111	115193.97	370.63	116111	115294.07	456.83	115098	113055.7	1169.43	97940	94924.53	1610.04
		2op	116442	115776.17	335.59	116442	115775.77	338.84	114853	113734.13	764.66	99239	95493.33	1709.62

Table A.1678: *j02459_7*: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115915	114969.87	351.58	116144	114950.17	548.94	114773	113879.17	551.4	110754	107555.13	1583.68
		2op	116352	115517.9	238.57	115734	115450.27	157.44	115580	114664.77	405.13	111076	108777.97	1288.81
	50	rnd	115807	114912.2	427.52	116007	114703.57	595.9	115334	114377.53	521.69	113402	111138.73	1411.88
51	20	2op	115751	115510.9	186.78	115973	115498.7	197.99	115761	115117.5	266.11	113637	111778.7	841.94
		rnd	116096	114981.43	498.03	115909	115007.8	528.91	115421	114702.8	466.48	113922	112775.93	780.1
	50	2op	115828	115514.67	179.66	116082	115508.13	210.09	115939	115302.03	258.04	114661	113669.2	512.74
	20	rnd	115832	114861.87	624.03	115758	114986.43	584.54	115498	114618.37	514.94	114904	113821.67	617.95
		2op	116091	115565.77	219.41	116190	115492.53	207.25	115711	115342.33	201.03	115072	114328.17	411.29

Table A.1679: *j02459_7*: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38169	37265.2	499.02	38104	37070.6	499.54	35457	33219.9	1102.11	31025	29320.63	804.13
		2op	38409	37533.33	517.42	38089	37192.8	559.17	36243	33814.67	1086.29	31649	29788.4	903.08
	50	rnd	38015	37313.53	426.11	37986	37137.27	497.47	37128	35245.73	946.61	30955	29482.3	776.98
51	20	rnd	38246	37551.8	555.68	38146	36908.07	526.76	36850	35398.3	784.15	31532	29825.17	888.83
		2op	38407	38011.97	304.42	38576	38063.27	257.66	38232	37576.27	547.37	36006	34832.67	480.49
	50	rnd	38437	38085.7	249.48	38511	38207.83	173.67	38420	37600.17	435.05	35991	34946.83	618.46
	20	rnd	38532	38067.87	242.15	38466	38107.47	206.44	38242	37598.53	377.1	36181	34582.17	870.42
		2op	38465	38039.23	343.51	38538	38173.67	183.71	38290	37487.5	427.65	36731	34970.07	755.33

Table A.1680: $m15421_5$: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38534	38262.97	164.95	38560	38300.17	177.24	38475	38144.97	252.8	37913	36590.93	704.58
		2op	38414	38349.83	79.22	38437	38404.7	14.56	38530	38260.87	116.97	37787	36764.97	602.51
	50	rnd	38559	38247.87	184.82	38620	38305.8	212.47	38527	38164.37	224.26	38172	37572.77	423.12
51	20	rnd	38414	38390.17	45.45	38442	38425.47	14.08	38509	38357.33	56.45	38288	37758	296.28
		2op	38566	38282.57	190.39	38594	38368.47	158.76	38614	38296.03	164.23	38410	37832.6	356.97
	50	rnd	38434	38389.37	51.22	38442	38429.13	13.34	38515	38390.5	36.66	38397	38025.37	325.2
	20	rnd	38681	38270.77	210.66	38661	38395.23	190.19	38661	38313.47	181.43	38436	38073.73	220.86
		2op	38426	38387.17	50.21	38442	38436.77	9.86	38521	38407.03	26.35	38408	38226.73	131.53

Table A.1681: $m15421_5$: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38307	37213.13	570.11	37796	36845.6	421.59	35691	33517.83	862.46	31112	29189.57	802.05
		2op	38375	37324.47	602.72	38336	37126.27	666.62	35031	33631.93	973.87	30851	29497.63	677.8
	50	rnd	38240	37426.73	512.17	38199	37044.3	550	36706	35325.43	832.04	31260	29122.97	798.77
51	20	rnd	38407	37546.33	496.54	38260	36939.33	712.71	37036	35325.8	880.15	30926	29358.27	857.89
		2op	38469	38054.43	273.18	38521	38064.67	224.17	38252	37438.5	509.88	35395	34425.03	504.28
	50	rnd	38443	38068.97	296.06	38414	38150.3	205.42	38249	37560.47	449.49	35669	34626.6	513.64
	20	rnd	38425	37942.23	360.16	38472	38009.5	322.34	38391	37571.13	449.16	36497	34724.87	880.51
		2op	38436	38069.63	233.28	38432	38076.73	239.14	38405	37771.1	414.06	36482	34694.9	942.54

Table A.1682: $m15421_5$: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38663	38316.23	192.58	38648	38360.43	172.11	38531	37915.1	341.39	37695	36567	643.78
		2op	38434	38370.77	70.42	38528	38412.03	26.99	38476	38190.43	165.49	37709	36716.47	697.77
	50	rnd	38509	38210	205.07	38677	38365.1	193.28	38546	38199.97	224.61	37966	37402.4	420.26
51	20	rnd	38413	38380	55.17	38442	38426.57	14.62	38423	38309.67	87.71	38040	37349.27	510.66
		2op	38631	38287.13	221.77	38613	38345.83	188.49	38600	38275.5	151.94	38280	37851.73	319.31
	50	rnd	38441	38394.4	47.96	38442	38425.47	13.43	38427	38390.23	21.65	38437	38126.77	177.26
	20	rnd	38662	38215.13	236.21	38608	38350.83	137.73	38625	38297.7	170.78	38502	38015.8	248.8
		2op	38414	38383.83	55.06	38442	38433.33	11.52	38437	38408.97	14.79	38454	38214.37	178.05

Table A.1683: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38640	38288.7	171.57	38502	38274.73	175.02	37141	35411	1418.9	31886	28945.6	1143.2
		2op	38442	38349.03	85.2	38438	38333.57	107.33	37368	35624.73	1071.65	30643	28750.37	883.61
	50	rnd	38581	38212.97	206.93	38561	38199.27	248.83	37202	35687.6	1284.6	30695	28935.63	843.36
51	20	rnd	38437	38272.87	173.72	38437	38274.9	171.24	37459	36120.33	1068.3	30308	28899.07	781.35
		2op	38573	38319.93	157.78	38631	38292.1	182.96	38614	37944.9	513.98	34950	33593.7	856.05
	50	rnd	38442	38421	17.17	38442	38435.9	7.59	38451	38234.9	182.38	35360	33619.93	886.77
	20	rnd	38572	38329.73	175.17	38651	38310.67	197.77	38437	38043.37	330.73	34731	33300.3	827.42
		2op	38442	38433.3	12.27	38442	38431.47	11.8	38454	38207.47	158.77	34763	33463.77	821.44

Table A.1684: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38679	38297.53	181.21	38559	38261.67	204.6	38534	37934.4	252.86	36776	35637.1	578.53
		2op	38414	38405.87	6.42	38416	38398.9	21.9	38384	38160.93	187.53	36946	35728.2	731.58
	50	rnd	38695	38352.03	179.8	38604	38267.5	212.56	38469	38078.1	211.52	38127	37070.37	595.59
51	20	rnd	38429	38409.8	4	38422	38405.07	8.76	38426	38275.47	121.44	38002	37134.17	426.4
		2op	38574	38298.17	176.22	38579	38273.83	184.78	38660	38222.13	250.41	38337	37614.1	349.88
	50	rnd	38437	38413.77	10.82	38437	38411.27	9.83	38412	38367.17	42.25	38375	37876.23	225
	20	rnd	38528	38289.53	188.74	38554	38342.33	161.2	38562	38170.67	240.61	38464	37847.83	288.83
		2op	38437	38411.17	5.99	38430	38405.93	9.24	38427	38360.23	37.72	38404	38104.1	185.6

Table A.1685: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47393	46646.03	524.15	47143	45888.73	591.67	41959	39633.9	1047.29	37480	36262.37	683.61
		2op	47772	46477.7	607.49	47183	45691.77	708.23	41991	39875.67	1613.67	37931	36459.53	854.77
	50	rnd	47873	46737.13	669.97	47450	46283.17	641.32	44234	42414.87	1082.51	37794	36353.1	807.18
51	20	rnd	47766	47216	389.28	47825	47135.5	500.48	47309	45616.73	885.3	42769	41415.97	727.64
		2op	47830	47316.57	388.01	47830	47263.27	464.27	47498	45828.13	871.44	42659	41345.9	598.36
	50	rnd	47948	47170.33	407.95	47888	47410	356.59	47525	46545.97	565.57	43880	41001.6	1008.23
	20	rnd	47814	47033.27	473.27	47741	47273.2	329.31	47693	46530.03	716.91	42623	41008.03	908.26
		2op												

Table A.1686: *m15421_6*: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47886	47627.43	205.51	47947	47542.73	284.05	47843	47331.5	377.03	46885	45372.9	713.62
		2op	47758	47491.73	158.76	47758	47738.47	14.3	47890	47233.03	348.85	46642	45228.17	951.36
	50	rnd	48052	47560.2	276.19	47976	47573.93	293.16	47802	47474.53	237.57	47570	46566.37	581.93
51	20	rnd	47758	47516.27	168.89	47758	47754.43	4.35	47740	47403.17	152.73	47409	46469.33	477.63
		2op	47934	47517.07	303.44	47977	47662.77	205.16	47915	47544.67	314.79	47759	47065.67	412.36
	50	rnd	47758	47509.53	185.29	47758	47756.87	1.28	47758	47561.57	172.22	47501	47169.53	263.43
	20	rnd	47863	47464.67	270.3	47942	47571.23	264.72	47943	47588.97	221.86	47800	47310.2	237.16
		2op	47758	47463.83	123.94	47758	47756.8	1.49	47756	47711.67	57.99	47675	47211.43	213.09

Table A.1687: *m15421_6*: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47550	46550.83	615.12	47118	46100.8	655.3	41597	39743.27	1317.16	38280	36383.33	1033.65
		2op	47518	46441.6	642.56	47111	45845.97	719.98	41778	39709.87	1097.11	37576	36128.37	861.67
	50	rnd	47934	46454.73	754.48	47747	46376.83	599.99	44284	42015.1	1372.59	37123	35980.3	685.55
51	20	rnd	47572	46485.33	574.2	47343	46020.83	819.99	43875	41733.67	1246.34	38311	35980.5	902.82
		2op	47769	47201.43	386.39	47847	47116.63	477.38	47465	45913.33	999.45	42597	41282.67	587.09
	50	rnd	47758	47226.5	429.86	47755	47099.1	495.67	47160	46050.33	759.65	42971	41254.6	562.19
	20	rnd	47881	47272.4	410.73	47732	47009.3	507.18	47753	46602.67	629.23	43612	41229.37	983.21
		2op	47740	47219.2	364.33	47728	47219.67	377.15	47657	46783.43	590.39	42587	40691.27	722.1

Table A.1688: *m15421_6*: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47923	47577.73	239.73	48029	47598.27	264.21	47770	47203.03	359.01	46820	45260.23	648.71
		2op	47758	47547.7	155.28	47756	47711.47	83.75	47683	47303.57	208.06	47146	45293.2	1024.95
	50	rnd	47790	47496.1	277.46	47919	47579.17	226.56	47843	47381.37	371.35	47414	46578	479.29
51	20	rnd	47758	47497.07	169.47	47758	47754.23	4.86	47777	47414.3	239.82	47132	46452.93	471.46
		2op	48051	47597.33	267.28	47978	47604.8	246.49	47927	47598.8	219.83	47590	46973.8	575.68
	50	rnd	47758	47479.13	146.49	47758	47756.3	3.12	47822	47541.1	186.81	47696	47142.13	274.04
	20	rnd	47871	47509.6	236.59	47864	47530.73	271.78	47996	47610.3	268.07	47759	47321.67	330.89
		2op	47758	47524.47	167.25	47758	47757.2	1.35	47756	47722.13	35.9	47618	47303.47	167.85

Table A.1689: *m15421_6*: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47961	47567.3	242.5	47961	47521.17	287.43	44871	41313.9	2099.09	37879	36275.43	909.02
		2op	47758	47539.97	266.37	47758	47509.47	274.61	44492	41820.07	1930.09	37837	36094.33	811.25
	50	rnd	48034	47603.77	318.07	48032	47477.4	326.16	45559	43175.03	1157.1	38597	36037.57	946.59
51	20	rnd	47821	47540.5	207.92	47821	47541.07	234.61	44992	42879.17	1283.06	37858	36022.27	1011.12
		2op	47918	47538.53	277.91	48052	47682.33	194.31	47781	47081.5	567.69	43166	40703.93	886.03
	50	rnd	47758	47731.23	53.26	47758	47749.97	10.88	47609	47079.93	447.85	41925	40767.1	750.48
	20	rnd	47879	47558.87	306.57	47978	47579.47	220.57	47958	47254.07	375.32	42316	39635.1	850.76
		2op	47758	47745.97	35.19	47758	47732.53	81.54	47755	47330.4	273.19	41722	39986.63	844.35

Table A.1690: *m15421_6*: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48035	47547.63	311.63	47943	47537.3	257.2	47933	47370.4	297.95	45984	44565.83	779.41
		2op	47758	47567.7	160.8	47758	47566.03	157.97	47617	47179.93	317.8	45428	44376.4	709.35
	50	rnd	47973	47625.97	226.58	47961	47617.77	231.6	47913	47309.17	307.62	47024	46019.2	526.56
51	20	rnd	47758	47676.6	133.77	47758	47696.93	114.9	47723	47398.67	164.27	47136	45883.77	652.75
		2op	47936	47628.17	261.02	47872	47543	259.65	47917	47563.23	275.98	47501	46802.67	467.29
	50	rnd	47758	47706.87	97.01	47758	47747.63	35.09	47752	47553.7	182.55	47467	46844.33	299.17
	20	rnd	48051	47608.87	208.55	47848	47523.03	252.49	47931	47522.2	308.61	47757	47171.7	366.2
		2op	47758	47670.43	126.09	47830	47739.13	63.06	47754	47453.3	162.22	47463	47062.7	287.91

Table A.1691: *m15421_6*: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54382	53421.4	608.38	54240	52853.1	722.59	49446	46016	1895.11	44689	42781.13	1045.65
		2op	54645	53594.37	526.55	54241	52715.77	729.96	49400	46786.6	1547.2	45078	43090.8	846.77
	50	rnd	54516	53372.63	632.69	54256	53125.53	686.96	51766	49315.9	1312.22	44371	42715.27	913.96
51	20	rnd	54641	53685.97	661.26	54389	53226.57	669.21	51880	49486.7	1509.76	44875	43098.33	838.86
		2op	54788	53896.03	593.19	54862	53873.57	498.12	53933	52759.93	648.55	49773	48320.87	607.4
	50	rnd	54712	54337.67	265.43	54686	54234.67	253.55	54639	52915.73	913.19	49652	48351.87	610.83
	20	rnd	54901	54009.43	518.17	54765	54120	434.05	54612	53286.57	774.2	50688	48321.73	1165.02
		2op	54676	54284.43	341.02	54764	54259.97	257.66	54489	53657.27	481.31	50644	48259.33	1159.66

Table A.1692: $m15421.7$: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54793	54253.83	275	55066	54444.33	407.23	54631	54088.4	356.94	53031	51670.23	863.01
		2op	54753	54724.37	28.79	54745	54702.77	34.82	54801	54369.67	267.91	53647	52280.83	849.95
	50	rnd	54895	54361.03	369.55	55001	54441.43	361.34	54826	54258.83	425.04	54351	53325.87	588.87
51	20	rnd	54753	54727.5	21.3	54756	54745.6	6.18	54738	54580.6	97.71	54608	53701.37	503.62
		2op	55010	54376.63	353.69	55013	54535.17	297.67	54971	54300.33	376.89	54522	53762.77	517.85
	50	rnd	54754	54712.6	71.95	54770	54748.2	7.64	54780	54666.2	62.83	54595	54263.6	208.13
	20	rnd	54961	54497.07	260.07	54899	54554.23	267.08	54748	54320.77	346.05	54630	54007.83	373.37
		2op	54754	54736.17	20.39	54754	54751.13	4.65	54959	54721.93	65.62	54743	54460.2	159.17

Table A.1693: $m15421.7$: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54204	53325.2	562.68	53550	52432.53	693.38	49543	46369.77	1181.07	43897	42513.77	881.1
		2op	54491	53452.3	595.05	53816	52635.97	672.7	48070	46001.03	1317.05	45431	42829.87	953.9
	50	rnd	54520	53207.6	800.98	53751	52670.33	784.93	51277	49342.23	1148.85	43651	42407.43	798.27
51	20	rnd	54709	53527.57	584.77	54460	53209.4	612.37	51582	49438.1	1218.16	44246	42910.83	685.16
		2op	54998	54093.37	465.1	54569	53859.1	542.59	53995	52738.17	719.59	49175	47693.87	737.34
	50	rnd	54738	54221.27	384.29	54635	54195.3	351.16	54260	52926.2	798.12	49513	48406.07	621.3
	20	rnd	54650	54068.47	324.96	54944	54136.67	481.49	54637	53443.83	483.27	50070	47723.9	1083.61
		2op	54875	54207.4	417.12	54864	54172.07	437.67	54691	53482	612.4	49836	48221.87	947.41

Table A.1694: $m15421.7$: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54901	54348.93	340.78	54895	54497.73	272.87	54665	54036.17	418.31	53445	51824.63	1098.42
		2op	54935	54711.23	96.64	54958	54726.93	76.14	54738	54433.83	158.98	53402	52354	719.21
	50	rnd	54883	54349.57	379.39	55037	54534.27	327.76	54751	54070	388.54	54072	52972.57	702.37
51	20	rnd	54754	54729.73	25.75	54756	54744.47	9.96	54811	54551.63	179.23	54373	53665.23	525.01
		2op	54855	54381.93	275.9	55017	54519.77	319.39	54879	54304.23	284.97	54587	53794.93	563.24
	50	rnd	54754	54712.87	48.91	54756	54746.57	8.08	54951	54651.53	93.78	54880	54159.13	272.29
	20	rnd	54974	54434.9	334.06	54959	54581.83	261.07	54940	54438.57	298.67	54727	54046.57	375.94
		2op	54754	54733.6	17.8	54771	54752.47	5.61	54947	54701.53	58.1	54751	54447.87	198.1

Table A.1695: $m15421.7$: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55009	54373.13	432.26	54721	54300.4	323.27	51043	48333.17	1763.8	44831	42487.73	1074.24
		2op	54895	54562.87	202.79	54895	54546.2	205.42	51999	48353.73	2109.81	45454	43435.63	1078.81
	50	rnd	55111	54369.03	375.07	54817	54181.73	378.47	52515	49809.93	1348.49	43904	42194.2	890.53
51	20	rnd	54768	54533	225.37	54728	54504.83	231.67	52444	49858.83	1598.66	44775	42803.13	789.09
		2op	54974	54506.2	365.18	55014	54460.13	286.91	54794	54027.6	519.22	48572	47079.17	938.85
	50	rnd	54754	54724.8	27.24	54754	54729.83	25	54638	54213.53	379.59	49221	47588.93	840.64
	20	rnd	55010	54662.93	237.15	54956	54476.73	390.94	54792	53968.13	549.26	48535	46466.3	971.07
		2op	54754	54738.43	22.34	54769	54735.7	19.69	54642	54266.73	288.53	48379	46760.53	919.12

Table A.1696: $m15421.7$: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54884	54353.97	433.4	54898	54465	309.32	54608	54042.37	386.84	52610	50625.4	1179.7
		2op	54754	54740.17	14.58	54943	54734.83	45.73	54675	54385.07	193.62	53091	51680.63	726.52
	50	rnd	54945	54509.03	233.33	54982	54544.67	323.26	54834	54143.53	301.6	53919	52791.4	659.18
51	20	rnd	54745	54742.67	7.62	54754	54735.4	17.9	54857	54564.67	105.68	54075	53209.47	622.33
		2op	54811	54419.87	303.17	54923	54321.17	309.74	54788	54347.87	320.05	54419	53554	534.42
	50	rnd	54756	54747.9	4.49	54756	54745.47	8.88	54866	54681.67	56.01	54316	53901.47	329.54
	20	rnd	54964	54471.57	285.52	54917	54404.53	359.15	54891	54336.5	476.77	54686	53809.23	495.3
		2op	54754	54746.8	3.66	54754	54738.87	17.66	54864	54653	73.57	54758	54321.13	155.44

Table A.1697: $m15421.7$: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11394	11059.17	286.41	11478	11245.23	132.38	11368	10929.73	258.04	10538	10122.97	284.84
		2op	11305	10997.67	150.04	11410	11276.97	70.51	11305	10914.37	215.68	10631	10139.83	225.33
	50	rnd	11478	11068.37	251.49	11478	11260	123.54	11478	11219.73	168.9	10608	10185.1	273.41
51	20	2op	11305	10988.93	176.33	11373	11256.1	86.7	11308	11113.47	145.29	10924	10239.43	246.93
		rnd	11478	11175.9	165.75	11478	11243.27	151.02	11478	11259.83	132.74	11478	11178.9	181.79
	50	2op	11346	11047.9	84.18	11305	11134.5	59.13	11373	11234.97	82.55	11285	11060.8	72.47
	20	rnd	11413	11177.3	151.81	11478	11317.13	125.02	11478	11306.93	132.87	11478	11136.2	192.07
		2op	11153	11066.77	72.63	11411	11218.73	96.86	11394	11286.07	55.57	11146	10968	121.42

Table A.1698: $x60189_4$: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11372	11145.3	179.89	11478	11256.67	110.01	11478	11275.67	185.8	11434	11149.87	176.24
		2op	11109	11033	40.17	11285	11133.53	52.77	11109	11107.47	8.4	11247	11019.57	85.97
	50	rnd	11411	11152.3	146.28	11478	11215.63	147.86	11478	11220.9	172.03	11470	11243.23	140.52
51	20	2op	11109	11027.67	35.09	11285	11151.63	67.95	11285	11128.83	52.84	11109	11057.2	50.34
		rnd	11409	11113.3	156.94	11478	11279.77	145.24	11478	11243.37	164.42	11478	11240.2	147.56
	50	2op	11109	11020.8	28.24	11256	11113.9	26.84	11256	11131.8	52.54	11109	11109	0
	20	rnd	11411	11090.63	179.6	11478	11275.43	147.81	11478	11201.03	158.02	11478	11276.33	134.98
		2op	11109	11020.6	30.71	11109	11109	0	11305	11153.13	69.54	11109	11109	0

Table A.1699: $x60189_4$: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	10983.47	278.07	11478	11231.9	160.98	11382	10899.13	258.31	10539	9826.27	363.09
		2op	11285	10985.9	183.95	11309	11261.17	58.35	11227	10797.7	222.3	10555	10013.07	296.68
	50	rnd	11478	11043.23	250.31	11478	11237.07	176.45	11413	11107.7	160.71	10738	10172.2	259.05
51	20	2op	11285	11024.4	162.18	11410	11251.9	87.97	11305	11068.1	127.49	11051	10117.53	344.34
		rnd	11478	11173.2	155.78	11478	11203.27	135.29	11411	11249.6	89.07	11476	11153.27	192.07
	50	2op	11109	11034.7	62.1	11305	11130.7	68.67	11373	11201.4	96.36	11285	11082.57	60.12
	20	rnd	11478	11193.5	173.47	11478	11289.63	147.93	11478	11327.13	93.72	11478	11178.1	224.55
		2op	11305	11035.83	101.85	11373	11239.5	89.34	11373	11286.77	44.51	11305	11004.2	116.14

Table A.1700: $x60189_4$: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11168.63	164.17	11478	11265.77	101.67	11478	11216.93	163.27	11349	11107.5	153
		2op	11109	11017.53	25.78	11285	11140.87	60.28	11305	11111.27	43.41	11099	10983.93	72.71
	50	rnd	11321	11087.2	199.64	11478	11256.93	140.16	11413	11211.53	137.28	11478	11238.77	128.88
51	20	2op	11109	11026.93	34.72	11305	11171.13	81.54	11256	11121.93	40.27	11123	11061.83	46.26
		rnd	11394	11123.87	192.93	11413	11246.87	134.18	11478	11306.97	119.24	11478	11257.13	122.01
	50	2op	11101	11021.47	27.02	11109	11109	0	11305	11132.17	60.42	11109	11109	0
	20	rnd	11411	11222.9	107.09	11478	11214.17	143.17	11478	11281.6	144.31	11478	11294.5	130.46
		2op	11109	11022.73	33.75	11109	11109	0	11256	11149.7	64.33	11109	11109	0

Table A.1701: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11237.8	147.52	11478	11282.87	133.65	11365	10998.77	284.71	9990	8984.53	412.12
		2op	11109	11078.67	44.96	11394	11281.5	71.43	11305	10908.77	220.29	9768	8939.67	320.82
	50	rnd	11478	11203.57	144.72	11478	11277.17	111.1	11478	10911.03	306.19	10118	9182.77	470.64
51	20	2op	11256	11074.53	61.04	11394	11230.3	102.8	11285	10925.13	232.65	10218	9014.13	475.75
		rnd	11478	11234.97	137.18	11478	11296.03	133.86	11478	11235.87	129.61	11173	10766.73	248.27
	50	2op	11109	11084.47	41.38	11305	11205.33	82.16	11305	11094.2	76.54	10827	10516.67	182.37
	20	rnd	11413	11239.83	124.89	11478	11297.57	109.51	11478	11142.27	164.56	11372	10773.77	348.03
		2op	11305	11110.8	44.34	11305	11202.57	80.12	11160	11018.43	93.77	11128	10584.1	344.82

Table A.1702: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11170	184.61	11394	11179.93	168.21	11403	11116.4	234.1	10937	10131.33	475.38
		2op	11109	11044.4	42.57	11271	11104.93	42	11101	10966.37	83.47	10938	10234.9	415.19
	50	rnd	11394	11204.3	126.68	11478	11219.43	163.05	11411	11217.43	112.12	11357	10815	313.6
51	20	2op	11109	11061.27	45.83	11256	11117.67	35.68	11283	11036.47	97.14	11227	10783.7	219.78
		rnd	11411	11163.2	165.52	11478	11254.8	133.08	11478	11195.1	197.44	11338	11003.83	191.05
	50	2op	11109	11084.2	41.22	11109	11105.8	16.78	11254	11106.43	38.67	11143	10850.3	168.48
	20	rnd	11411	11189.57	157.16	11478	11236.93	154.41	11478	11265.9	98.64	11400	11118.53	177.83
		2op	11109	11082.73	41.24	11109	11097.57	28.55	11109	11104.63	13.19	11295	10967.2	103.3

Table A.1703: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13743.17	218.09	14161	13962.8	119.79	13962	13518.47	240.7	13315	12819.77	298.78
		2op	14038	13837.87	136.03	14133	14009.97	57.55	13983	13476.83	279.97	13257	12723.17	270.36
	50	rnd	14157	13740.3	272.79	14133	13913.87	138.4	14159	13736.97	173.48	13391	12802.53	276.93
51	20	rnd	14038	13828.7	179.44	14157	14026.13	96.31	14093	13752.1	174.49	13305	12879.23	233.89
		2op	14133	13850.57	183.37	14137	13901.97	127.19	14161	13932.23	140.08	14074	13763.2	195.17
	50	rnd	14038	13855.6	84.62	14157	13998.63	46.28	14038	13989.93	29.45	13992	13823.87	102.3
	20	rnd	14071	13792.37	219	14161	13964.67	135.58	14161	13967.67	134.43	13938	13664.47	165.65
		2op	14018	13883.73	89.06	14157	14031.07	46.83	14157	14039.07	61.02	14038	13670.87	166.07

Table A.1704: $x60189_5$: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13822.57	197.31	14157	13937.83	171.16	14157	13893.8	164.65	14053	13711.83	190.63
		2op	13938	13770.97	60.78	14157	13976.53	48.9	13995	13954.53	41.53	13919	13724.57	127.18
	50	rnd	14131	13852.9	171.38	14137	13933.8	136.12	14161	13971	122.13	14127	13844.03	176.19
51	20	rnd	13938	13791.8	64.6	14157	14006.23	57.53	14038	13970.67	25.73	13982	13760.63	94.53
		2op	14161	13867.4	140.69	14161	13844.2	194.13	14161	13935.9	146.35	14159	13917.73	134.8
	50	rnd	13938	13803.1	78.63	14062	13981.37	27.76	14038	13971.1	22.21	14038	13863.57	91.22
	20	rnd	14159	13865.53	169.23	14161	13906.3	150.41	14161	13986.2	134.46	14155	13886.93	148.99
		2op	13827	13753.13	49.22	14038	13959.33	28.25	14157	14007.07	50.36	13993	13870.9	75.35

Table A.1705: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14133	13750.1	225.77	14137	13946.5	140.07	13915	13521.53	225.68	13004	12516	319.07
		2op	14018	13814.27	161.8	14157	13990.87	75.03	13879	13465.5	213.5	13462	12708.67	306.24
	50	rnd	14038	13729.37	233.53	14157	13972.83	129.62	13998	13679.07	205.3	13363	12771.87	308.56
51	20	rnd	13995	13842.77	132.75	14157	14052.77	67.43	13993	13727.1	149.38	13483	12794.57	321.66
		2op	14137	13845.23	169.02	14137	13901.57	124.46	14161	13901.1	157.46	14069	13806.63	175.2
	50	rnd	14038	13857.3	94.17	14157	14001.87	51.06	14157	14003.7	53.55	13900	13749.13	130.06
	20	rnd	14139	13879.53	171.38	14161	13986.13	108.98	14161	14008.17	123.52	14053	13617.7	218.59
		2op	14038	13897.17	101.68	14133	14008.3	42.95	14157	14015.63	53.11	13893	13674.87	132.7

Table A.1706: $x60189_5$: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14135	13866.77	166.27	14161	13979.03	140.05	14161	13899.07	159.57	13914	13683.27	135.24
		2op	13938	13774.33	67.58	14157	13981.7	53.41	13995	13943.93	54.67	13888	13643.77	148.34
	50	rnd	14133	13840.27	172.43	14161	13931.07	152.81	14157	13947.27	144.94	14051	13825.37	120.66
		2op	13938	13780.67	66.37	14157	13991.97	54.45	14038	13957.4	34.57	13918	13750.6	87.82
51	20	rnd	14125	13831.17	194.21	14161	13916.37	175.5	14157	13913.27	159.74	14131	13879.63	161.27
		2op	13932	13778.33	58.27	14157	13983	42.07	14005	13964.83	29.74	13988	13843.6	78.61
	50	rnd	14101	13868.1	143.19	14161	13883.77	163.71	14161	13954.73	133.02	14155	13940.73	146.06
		2op	13827	13774.87	53.23	14064	13959.8	47.54	14157	13983.33	50.94	13995	13866.37	78.2

Table A.1707: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13878.23	140.38	14139	13959.73	95.12	13966	13535.77	292.36	12525	11487.4	449.64
		2op	14038	13926.8	73.79	14157	14019.13	42.47	13925	13553.2	305.29	12861	11700.63	473.52
	50	rnd	14161	13861.27	194.28	14139	13964.93	129.98	14039	13561.7	272.06	12639	11720.9	515.21
		2op	14038	13976.77	63.49	14064	13999.23	32.25	13958	13706	227.78	12838	11991.97	504.14
51	20	rnd	14137	13877.7	134.96	14161	13939.97	119.02	14131	13844.23	174.65	13752	13256.93	312.91
		2op	14038	13934.17	71.49	14064	14013.23	26.89	14038	13872.67	116.94	13930	13302.03	240.25
	50	rnd	14137	13880.67	118.01	14133	13939.43	134.2	14161	13847.43	187.12	14084	13464.1	305.07
		2op	14038	13973.77	44.61	14157	14014.47	46.58	14004	13842.03	126.87	13811	13285.63	273.35

Table A.1708: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14155	13902.47	166.6	14126	13904.43	174.22	14124	13802	169.19	13852	13178.9	365.89
		2op	13938	13826.63	65.28	14038	13936.43	74.54	13995	13715.1	131.12	13605	13000.2	440.3
	50	rnd	14137	13936.87	186.17	14159	13909.53	171.35	14127	13783.6	186.03	13901	13509.7	208.07
		2op	13932	13823.77	38.79	14038	13974.3	38.83	14004	13827.4	128.79	13786	13480.2	246.27
51	20	rnd	14161	13918.73	168.8	14123	13888.57	138.77	14097	13850.87	190.17	14090	13732.97	163.51
		2op	13938	13835.63	48.76	13995	13898.3	60.09	14118	13879.77	109.04	13935	13668.07	128.92
	50	rnd	14137	13943.67	131.83	14062	13897.1	104.09	14139	13920.33	146.26	14094	13737.9	195.96
		2op	13968	13843.87	40.88	14038	13910.83	60.02	14038	13927.47	88.68	13826	13660.33	84.54

Table A.1709: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18082	17746.47	236.84	18251	17937.7	181.19	17795	17009.73	414.67	16674	15637.97	348.27
		2op	18074	17873.33	196.52	18017	17930.33	128.41	17650	16964.53	397.24	16166	15732.73	352.63
	50	rnd	18175	17778.4	274.93	18181	17960.63	191.44	18125	17412.4	340.44	16581	15751.33	433.32
51	20	rnd	18017	17904.47	161.29	18142	17987.37	71.3	18076	17483.7	364.84	16689	15897.87	347.54
		2op	18184	17882.43	160.35	18171	17982.77	123.51	18301	17881.43	205.76	17965	17550.83	248.93
	50	rnd	18017	17975.97	100.7	18017	18015.1	9.34	18107	17977.7	40	17820	17567.77	152.91
	20	rnd	18114	17843.17	185.36	18132	17934.07	146.31	18156	17934.97	133.85	17967	17403.87	325.01
		2op	18017	17993.47	48.15	18017	18016.13	4.75	18017	18005.13	18.56	18002	17594.17	209.61

Table A.1710: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18143	17890.73	145.52	18165	17930.1	152.73	18169	17871.3	182.31	17875	17497.57	220.97
		2op	18017	18007.03	11.59	18017	18017	0	18017	18002.6	14.65	17904	17693.97	99.72
	50	rnd	18156	17876.2	127.77	18301	18025.17	143.34	18301	17879.03	228.86	18004	17720.37	189.32
51	20	rnd	18017	18007.03	11.59	18017	18017	0	18017	18017	0	18004	17872.4	76.22
		2op	18184	17880.5	180.57	18301	17875.9	170.64	18301	17921.9	159.94	18148	17863.1	177.83
	50	rnd	18017	18007.8	11.46	18017	18017	0	18017	18017	0	18017	17968.63	25.75
	20	rnd	18184	17916.2	181.99	18176	17868.23	174.15	18195	17952.67	158.8	18151	17900.53	164.61
		2op	18017	18006.27	11.67	18017	18017	0	18017	18017	0	18017	17987.1	24.92

Table A.1711: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17656.03	342.71	18171	17856.13	182.58	17608	16974.27	383.34	16169	15484.07	458.31
		2op	18041	17860.37	198.43	18017	17898.5	129.02	17748	17125.83	381.86	16170	15567.03	349.59
	50	rnd	18097	17749	225.69	18176	17944.1	160.33	17941	17316.6	353.77	16136	15580.9	382.04
51	20	rnd	18092	17911.63	199.18	18034	17985.6	48.93	17896	17362.1	345.93	16303	15649.67	411.97
		2op	18275	17892.53	184.86	18131	17992	121.33	18275	17952.93	170.3	17778	17485.6	198.87
	50	rnd	18142	17989.73	99.05	18017	18016.37	3.47	18046	17965.13	56.5	17872	17561.17	158.46
	20	rnd	18301	17960.47	159.22	18301	17989.8	139.98	18301	17945.3	160.1	17916	17439.77	265.63
		2op	18017	17984.2	63.1	18017	18016.2	3.43	18017	17999.63	22.09	17934	17427.1	280.59

Table A.1712: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18184	17870.23	179.1	18171	17955.07	171.08	18291	17888.4	166.95	17914	17478.43	286.34
		2op	18017	18003.77	13.63	18017	18017	0	18017	17997.03	13.61	17884	17646.5	129.79
	50	rnd	18172	17849.03	190.33	18292	17970.67	144.56	18172	17955.1	154.2	18017	17747.53	175.32
51	20	rnd	18017	18005.5	11.7	18017	18017	0	18017	18016.57	1.41	17989	17858.13	79.47
		2op	18175	17882.77	154.38	18186	17902.33	160.16	18301	17973.67	194.01	18065	17820.63	186.87
	50	rnd	18017	18010.1	10.72	18017	18017	0	18017	18017	0	18016	17967.7	33.83
	20	rnd	18142	17866.1	160.53	18301	17879.9	224.78	18165	17952.83	141.16	18282	17873.17	211.6
		2op	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18017	17985.2	20.38

Table A.1713: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17906.57	197.48	18181	17977.53	138.71	18013	17399.7	344.61	15807	14793.13	474.68
		2op	18017	18016.4	3.29	18017	18010.63	20.65	18114	17496.53	359.04	15949	14809.47	456.97
	50	rnd	18143	17890.3	136.91	18301	18007.93	129.11	18118	17453.97	423.05	15945	14715.5	636.67
51	20	rnd	18017	18006.03	56.76	18017	18006.33	21.96	17994	17457.47	396.04	16018	14805.07	541.46
		2op	18181	17931.77	213.77	18165	17957.23	162.7	18120	17881.17	168.18	17285	16672.43	299.52
	50	rnd	18017	18017	0	18017	18017	0	18017	17977.43	76.84	17674	16729.37	417.54
	20	rnd	18176	18028.27	98.52	18152	17952.37	122.63	18176	17940.1	138.54	17534	16850.07	474.76
		2op	18017	18017	0	18017	18017	0	18017	17949.43	150.63	17515	16908.9	310.02

Table A.1714: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18156	17884.4	193.66	18141	17907.5	159.38	18282	17813.53	240.71	17780	16984.5	498
		2op	18017	18017	0	18017	18017	0	18008	17939.37	62.16	17786	17203.47	434.91
	50	rnd	18184	17914.6	128.72	18298	17939.03	158.41	18171	17859.47	184.06	17971	17518.33	249.39
51	20	rnd	18017	18016.23	4.2	18017	18017	0	18017	17986.43	25.53	17894	17584.97	185.66
		2op	18175	17942.77	167.6	18175	17926.4	187.94	18216	17920.7	164.4	18081	17707.67	209.57
	50	rnd	18017	18017	0	18017	18017	0	18017	18006.5	17.43	18004	17873.27	100.37
	20	rnd	18142	17909.17	161.79	18142	17900.87	154.13	18180	17878.3	202.3	18139	17791.6	182.43
		2op	18017	18017	0	18017	18017	0	18017	18010.23	9.2	18017	17891.5	143.43

Table A.1715: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21184	20679.3	306.76	21121	20812.17	237.97	20733	20066.17	503.06	18941	18320.5	289.96
		2op	21154	20739.77	161.72	21047	20834.7	115.45	20635	19940.77	314.89	19262	18380.7	373.69
	50	rnd	21170	20703.37	299.5	21182	20934.1	152.87	21234	20259.63	443.05	19846	18566.63	584.4
51	20	rnd	21027	20778.3	155.76	21193	21009.1	86.78	20915	20317.57	363.2	19201	18533.87	382.65
		2op	21164	20810.97	215.6	21196	20931.77	188.02	21098	20864.43	192.78	20972	20382.07	244.13
	50	rnd	21015	20805.7	106.11	21102	20920.17	100.84	21015	20757.57	124.22	20652	20302.6	187.32
	20	rnd	21245	20805.13	323.25	21196	20941.03	186.2	21206	20904.83	160.06	20849	20269.13	388.17
		2op	21025	20813.17	72.85	21154	20971.43	84.15	21166	20842.1	100.68	20839	20353.07	265.51

Table A.1716: $x60189.7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21209	20886.27	178.4	21172	20899.83	205.3	21097	20821.03	178.75	21037	20528.37	239.59
		2op	20829	20829	0	20997	20834.6	30.67	20987	20820.33	80.19	20916	20487.13	182.55
	50	rnd	21212	20874.83	199.01	21212	20897.8	198.62	21176	20887.87	221.32	21142	20653.97	205.42
51	20	rnd	20829	20829	0	20829	20829	0	20836	20829.1	1.35	20954	20666.77	107.3
		2op	21162	20896.7	173.99	21186	20968.93	167.93	21173	20898.13	210.17	21151	20837.83	187
	50	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20973	20797.6	89.02
	20	rnd	21209	20915	193.04	21202	20847.2	237.11	21181	20936.8	150.26	21156	20849.77	204.17
		2op	20829	20829	0	20829	20828.8	1.1	20829	20828.8	1.1	20980	20811.5	58.27

Table A.1717: $x60189.7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21175	20770.23	292.98	21113	20801.77	268.05	20785	19806.23	518.95	19186	18195.6	429.26
		2op	21060	20776.37	186.56	21207	20808.33	138.78	21097	19883.73	548.29	18880	18160.87	453.51
	50	rnd	21235	20648.27	387.28	21173	20970.47	147.74	20822	19975.83	439.03	19325	18305.13	364.74
51	20	rnd	21217	20759.73	222.79	21193	20966.67	107.13	20928	20194.3	360.92	19555	18217.1	644.11
		2op	21190	20826.8	228.09	21161	20930.8	149.16	21190	20778.67	259.94	20711	20315.1	261.9
	50	rnd	21052	20827.87	92.2	21068	20915.3	89.01	20977	20785.53	87.03	20757	20315.8	204.73
	20	rnd	21180	20867.07	202.58	21196	20977.3	174.01	21208	20958.27	134.19	20909	20259.1	326.86
		2op	21120	20801.7	160.92	21115	20990.97	78.07	21047	20850.2	89.59	20800	20220.93	303.89

Table A.1718: $x60189.7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21209	20830.53	181.2	21212	20941.1	164.55	21177	20910.23	232.4	20934	20415.97	289.51
		2op	20829	20828.8	1.1	20829	20829	0	20987	20831	61.35	20836	20468.33	160.3
	50	rnd	21198	20898.77	176.38	21218	20952.87	150.41	21184	20831.1	209.25	20999	20623.47	188.1
51	20	rnd	20829	20829	0	20829	20828.8	1.1	20985	20835.53	30.81	20947	20662.5	127.64
		2op	21162	20922.23	149.35	21190	20925.43	188.75	21188	20843.63	193.22	21138	20835.77	168.27
	50	rnd	20867	20830.27	6.94	20991	20834.4	29.58	20829	20829	0	20953	20792.43	69.68
	20	rnd	21182	20880.37	208.01	21165	20886.37	189.61	21161	20942.23	147.17	21119	20861.3	200.98
		2op	20829	20829	0	20829	20828.8	1.1	20829	20828.8	1.1	20980	20801.37	59.74

Table A.1719: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21162	20880.8	186.17	21220	20947.43	153.8	20897	20103.23	526.59	18481	17370.8	662.38
		2op	21029	20825.67	57.4	21193	20896.67	104.87	20978	20372.73	337.26	18483	17464	491.9
	50	rnd	21271	20946.37	167.11	21233	20987.9	146.36	20907	20332.53	384.56	18464	17270.77	581.35
51	20	rnd	21019	20844.93	61.98	21193	20902.17	129.62	21021	20399.33	423.97	18660	17417.83	564.1
		2op	21203	20908.67	184.8	21203	20947.63	166.58	21129	20873.8	229.6	20303	19502.1	386.28
	50	rnd	20889	20831	10.95	21057	20948.17	74.25	20987	20815.57	52.28	20198	19543.77	383.65
	20	rnd	21196	20926.7	163.55	21212	20949.2	160.81	21212	20838.73	243.57	20645	19831.8	408.66
		2op	21193	20873.2	106.75	21210	21022.67	110.12	20987	20827.2	87.19	20338	19640.2	393.43

Table A.1720: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21214	20938.83	177.52	21165	20843.83	225.67	21089	20715.1	227.99	20504	19796.43	425.89
		2op	20829	20829	0	20829	20828.97	0.18	20973	20752.8	95.02	20365	19944.07	338.05
	50	rnd	21218	20878.97	236.8	21156	20881.6	170.85	21196	20789.33	222.24	20865	20365.33	298.2
51	20	rnd	20829	20829	0	20829	20828.1	2.9	20979	20810.83	59.31	20792	20360.63	260.83
		2op	21203	20872.33	204.7	21209	20914.97	209.5	21271	20884.53	234.65	20995	20622.8	227.2
	50	rnd	20829	20829	0	20829	20829	0	20978	20828.6	44.22	20972	20626.97	163.94
	20	rnd	21203	20876.27	177.05	21182	20953.2	160	21122	20806.33	204.78	21148	20714.17	240.47
		2op	20829	20829	0	20829	20829	0	20987	20828.77	33.77	20924	20721	102.65

Table A.1721: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	589.57	3.17	596	592.47	1.7	595	591.67	2.34	595	580.2	5.53
		2op	595	590.8	3.89	596	592.83	1.68	596	592.13	1.89	593	578.9	5.55
	50	rnd	594	589.33	3.55	596	593.77	1.45	596	593.47	1.78	590	583.33	3.48
		2op	595	591.23	2.86	595	594.1	1.27	596	593.67	1.6	594	584.3	3.52
51	20	rnd	595	590.67	2.81	596	593.83	1.21	596	594.57	0.97	596	592.97	1.85
		2op	596	592.97	1.88	596	594.7	1.21	596	594.93	0.83	596	594.6	0.86
	50	rnd	596	591.03	3.56	596	594.47	1.28	596	594.93	0.98	596	593.03	1.9
		2op	596	592.37	3.03	596	594.7	0.92	596	594.83	1.09	596	594.07	1.34

Table A.1722: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	589.9	3.73	596	592.57	2.5	596	592.93	2.07	595	589.93	3.57
		2op	594	590.57	2.24	595	594.57	1.41	595	594	1.34	594	590.37	3.29
	50	rnd	596	590.87	3.9	596	591.9	2.41	596	593.33	2.11	595	591.5	3.06
		2op	594	590.83	2.25	595	594.67	1.65	595	594.73	1.28	595	593.57	1.76
51	20	rnd	596	591.07	3.06	596	592	2.79	596	592.43	2.8	596	591.5	2.35
		2op	594	590.9	2.52	595	594.47	1.28	595	594.83	0.59	595	594.1	0.8
	50	rnd	596	591.57	2.92	596	591.2	3.17	596	592.83	2.57	596	591.77	2.4
		2op	594	591.3	2.37	595	594.73	0.45	595	595	0	595	594.03	0.93

Table A.1723: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	586.63	3.76	595	592.43	1.83	596	591.3	2.44	585	577.03	4.16
		2op	595	589.63	4.08	595	592.2	2.14	596	591.57	2.61	590	578.53	5.92
	50	rnd	595	588.97	4.02	596	593.7	1.32	596	593	1.86	589	581.1	3.54
		2op	596	590.57	3.84	596	593.77	1.25	595	593.07	1.36	591	581.43	3.96
51	20	rnd	595	590.63	2.97	596	593.8	1.3	596	594.33	1.94	596	592.67	2.25
		2op	595	592.73	2.43	596	594.47	1.25	596	594.6	1	596	594.83	0.75
	50	rnd	595	591.23	2.25	596	594.7	0.95	596	594.73	0.91	596	592.07	2.42
		2op	595	592.57	2.84	596	594.8	0.96	596	594.97	0.72	595	592.9	1.97

Table A.1724: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	590.93	3.35	596	592.53	2.73	595	592.3	2.74	594	588.77	3.67
		2op	594	591.4	2.16	595	594.73	0.78	595	593.87	1.17	595	590.4	3.52
	50	rnd	596	590.8	3.39	596	592.73	2.36	595	592.23	2.49	596	591.1	3.1
51	20	rnd	594	591.4	2.42	595	594.97	0.18	595	594.93	0.25	595	593.23	2.36
		2op	594	591.4	2.42	595	594.97	0.18	595	594.93	0.25	595	593.23	2.36
	50	rnd	595	590.73	3.35	596	591.2	2.82	596	593	2.44	595	592.17	2.13
	20	rnd	594	591.13	2.34	595	594.77	0.43	595	594.7	1.12	595	594.1	0.55
		2op	594	591.13	2.34	595	594.77	0.43	595	594.7	1.12	595	594.1	0.55
	50	rnd	596	591.27	3.23	596	591.47	2.89	596	591.7	2.55	596	591.77	3.29
	20	rnd	594	591.33	2.43	595	594.43	0.5	595	595	0	595	594.2	0.48
		2op	594	591.33	2.43	595	594.43	0.5	595	595	0	595	594.2	0.48
	50	rnd	596	591.27	3.23	596	591.47	2.89	596	591.7	2.55	596	591.77	3.29
	20	rnd	594	591.33	2.43	595	594.43	0.5	595	595	0	595	594.2	0.48
		2op	594	591.33	2.43	595	594.43	0.5	595	595	0	595	594.2	0.48

Table A.1725: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.6	2.39	596	594.23	1.38	590	579.03	6.14	564	552	5.69
		2op	596	593.57	1.96	596	594.57	0.94	594	582.1	6.29	558	550.57	4.05
	50	rnd	595	591.63	2.74	595	592.77	1.63	591	580.6	5.31	582	555.27	9.94
51	20	rnd	595	593.33	1.9	596	594.2	1.45	590	582.4	4.29	579	555.03	10.05
		2op	595	593.33	1.9	596	594.2	1.45	590	582.4	4.29	579	555.03	10.05
	50	rnd	596	593.13	1.85	596	594.57	1.01	596	591.67	2.2	592	581.3	5.78
	20	rnd	595	594.2	0.41	596	595.1	0.4	595	592.9	2.09	594	581.07	6.07
		2op	595	594.2	0.41	596	595.1	0.4	595	592.9	2.09	594	581.07	6.07
	50	rnd	596	593	1.44	596	594.3	1.21	596	589.8	3.19	588	576.43	7.36
	20	rnd	596	594.87	0.51	596	595.07	0.25	595	590.33	2.8	593	576.97	8.81
		2op	596	594.87	0.51	596	595.07	0.25	595	590.33	2.8	593	576.97	8.81
	50	rnd	596	593	1.44	596	594.3	1.21	596	589.8	3.19	588	576.43	7.36
	20	rnd	596	594.87	0.51	596	595.07	0.25	595	590.33	2.8	593	576.97	8.81
		2op	596	594.87	0.51	596	595.07	0.25	595	590.33	2.8	593	576.97	8.81
	50	rnd	596	593	1.44	596	594.3	1.21	596	589.8	3.19	588	576.43	7.36

Table A.1726: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.87	3.04	596	591.73	2.43	594	584.23	7.44	580	556.17	11.03
		2op	594	593.07	1.8	595	594	0.45	595	584.67	7.74	582	560.67	10.98
	50	rnd	595	592.27	1.93	596	591.3	3.22	594	587.9	4.54	586	570.53	9.29
51	20	rnd	594	593.1	1.6	595	593.97	1	595	589.47	4.23	591	568.03	11.93
		2op	594	593.1	1.6	595	593.97	1	595	589.47	4.23	591	568.03	11.93
	50	rnd	596	590.63	2.93	595	590.53	2.78	596	590.5	3.24	593	579.1	7.34
	20	rnd	595	593.6	1.16	595	594.07	0.25	594	592.7	2.82	590	582.6	6.55
		2op	595	593.6	1.16	595	594.07	0.25	594	592.7	2.82	590	582.6	6.55
	50	rnd	596	591.77	2.47	596	591.4	3.05	596	591.47	3.23	595	582	8.96
	20	rnd	595	593.53	1.36	594	594	0	595	593.83	1.32	595	584.9	6.24
		2op	595	593.53	1.36	594	594	0	595	593.83	1.32	595	584.9	6.24
	50	rnd	596	591.77	2.47	596	591.4	3.05	596	591.47	3.23	595	582	8.96

Table A.1727: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	769.13	4.7	777	773.37	2.06	777	772.6	2.7	769	760.03	5.49
		2op	775	767.67	3.34	777	773.4	1.99	777	772.37	2.4	766	757.9	4.82
	50	rnd	777	768.8	4.34	777	774.4	1.22	777	774.6	1.63	775	764	5.32
51	20	rnd	777	769.3	3.54	777	774.7	1.6	777	774.9	1.65	775	764.1	3.97
		2op	777	769.3	3.54	777	774.7	1.6	777	774.9	1.65	775	764.1	3.97
	50	rnd	777	772.07	3.44	777	773.27	2.29	777	774.5	1.2	777	773	2.49
	20	2op	774	767.5	5.22	777	773.53	1.59	777	773.73	1.26	777	772.03	1.73
		2op	774	767.5	5.22	777	773.53	1.59	777	773.73	1.26	777	772.03	1.73
	50	rnd	777	771.93	3.46	777	774.63	1.54	777	775.43	1.36	777	773.7	1.99
	20	2op	775	770.4	1.89	777	774.67	1.65	777	775.33	1.47	777	772.57	1.94
		2op	775	770.4	1.89	777	774.67	1.65	777	775.33	1.47	777	772.57	1.94
	50	rnd	777	771.93	3.46	777	774.63	1.54	777	775.43	1.36	777	773.7	1.99

Table A.1728: f_{25_400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	766.33	6.98	777	773.83	2.45	777	772.73	2.46	776	768.97	7.51
		2op	770	768.03	2.04	777	769.8	1.63	774	770	1.58	772	767.13	4.83
	50	rnd	775	767.13	4.93	776	771.83	2.74	777	773.27	2.53	777	770.23	5.76
51	20	2op	770	767.3	2.23	772	769.7	0.65	772	769.8	0.66	770	768.93	1.78
		2op	770	767.3	2.23	772	769.7	0.65	772	769.8	0.66	770	768.93	1.78
	50	rnd	775	767.53	6.51	777	770.13	6.04	777	773.17	1.95	777	770.13	7.79
	20	2op	770	767.8	2.95	774	769.67	0.96	774	769.87	1.5	774	769.63	1.75
		2op	770	767.8	2.95	774	769.67	0.96	774	769.87	1.5	774	769.63	1.75
	50	rnd	775	768.4	5.68	777	771	3.61	777	770.9	4.97	777	772.2	3.74
	20	2op	770	767.27	2.18	770	769.47	0.51	772	769.63	0.67	772	769.7	0.79
		2op	770	767.27	2.18	770	769.47	0.51	772	769.63	0.67	772	769.7	0.79
	50	rnd	775	768.4	5.68	777	771	3.61	777	770.9	4.97	777	772.2	3.74

Table A.1729: f_{25_400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	765.83	7.94	777	773.1	2.11	777	772.53	2.46	768	757.07	7.54
		2op	775	767.13	6.75	777	773.33	2.17	777	772.57	2.18	767	755.87	5.82
	50	rnd	775	768.67	3.7	777	774	1.6	777	774.3	1.34	768	760.5	3.91
51	20	2op	776	768.03	6.27	777	774.53	1.63	777	774.73	1.55	773	760.8	4.32
		2op	776	768.03	6.27	777	774.53	1.63	777	774.73	1.55	773	760.8	4.32
	50	rnd	777	771.77	3.21	777	774.03	2.06	777	774.63	1.56	777	772.93	3.11
	20	2op	771	766.87	4.64	777	773.03	1.79	777	773.73	1.55	775	772.33	1.47
		2op	771	766.87	4.64	777	773.03	1.79	777	773.73	1.55	775	772.33	1.47
	50	rnd	775	772.27	2.43	777	775.1	1.32	777	775.8	1.1	776	773.27	2.55
	20	2op	776	769.7	2.89	777	774.53	1.57	777	775.1	1.99	777	772.87	2.15
		2op	776	769.7	2.89	777	774.53	1.57	777	775.1	1.99	777	772.87	2.15
	50	rnd	775	772.27	2.43	777	775.1	1.32	777	775.8	1.1	776	773.27	2.55

Table A.1730: f_{25_400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	766	7.94	777	772.03	3.57	777	772.87	2.45	777	769.9	6.66
		2op	770	767.4	2.67	774	769.77	1.33	772	769.47	0.86	771	767.57	3.33
	50	rnd	775	767.6	8.16	777	769.03	8.46	777	772.67	3	777	770.03	6.08
51	20	rnd	770	767.27	2.07	770	769.43	0.5	772	769.87	0.86	775	769.53	2.47
		2op	775	766.07	9.3	777	767.47	10.18	777	771.8	5.48	777	772.6	3.38
	50	rnd	770	767.47	2.53	774	769.67	0.96	777	769.93	1.62	774	769.57	1.07
	20	rnd	775	767.93	5.9	777	769	7.65	777	771.73	3.64	777	773.1	3.5
		2op	770	767.93	2.26	770	769.4	0.5	770	769.2	0.76	770	769.6	0.5

Table A.1731: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	770.73	3.34	777	774.37	1.77	776	762.1	7.31	749	723.1	12.54
		2op	774	769.6	1.77	777	774.4	1.43	770	759.83	6.54	738	720.53	8.32
	50	rnd	777	772.07	2.99	777	774.87	1.55	775	762.53	6.33	773	725.67	17.49
51	20	rnd	777	771.63	2.2	777	774.13	1.57	776	763.6	6.09	761	724.43	15.17
		2op	777	772.23	2.36	777	774.03	2.01	777	772.4	2.5	775	763.23	5.51
	50	rnd	772	769.63	0.93	777	772.97	1.59	777	771.97	1.85	772	762.27	4.62
	20	rnd	777	774.03	1.9	777	774.5	1.66	776	771.5	2.47	776	755.37	9.75
		2op	777	770.93	2	777	773.93	1.86	775	770.5	2.05	770	755.6	8.14

Table A.1732: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	768.43	7.28	776	770.5	3.4	775	765.93	6.24	757	729.77	14.48
		2op	770	768.43	1.65	770	769.5	0.73	774	763.07	6.37	766	730.6	18.24
	50	rnd	775	768.1	6.5	777	770.83	3.51	777	769.53	4.14	772	749.4	15.54
51	20	rnd	770	768.9	1.49	774	770.1	1.54	772	767.13	3.43	772	750.7	16.25
		2op	775	769.43	5.92	777	769.4	6.99	777	770.97	4.43	776	764.63	7.88
	50	rnd	770	769.27	0.91	770	769.67	0.48	770	769.03	1.03	772	758.07	12.74
	20	rnd	775	767.7	8.23	777	770.93	2.92	777	770.13	4.67	777	763.8	8.67
		2op	770	769.33	0.48	774	769.63	1.33	774	769.5	0.97	770	763.77	4.23

Table A.1733: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	909.8	6.08	921	916.4	2.81	919	915.37	2.81	911	901.4	4.64
		2op	919	909.97	5.15	919	916.67	1.56	919	915.77	1.92	910	901.67	4.94
	50	rnd	918	912.43	4.05	921	917.23	1.83	921	917.93	1.66	912	902.53	4.55
		2op	918	911.73	4.21	921	917.53	2	921	917.8	1.95	914	905.3	4.84
51	20	rnd	918	913.57	2.87	921	916.03	2.48	921	917.57	2.33	921	916.2	3.24
		2op	916	912.97	3.44	919	916.43	1.89	921	918.33	1.97	921	916.3	1.53
	50	rnd	918	913.77	2.87	921	917.13	1.96	921	917.33	1.97	921	914.93	3.44
		2op	917	913.6	3.34	921	918.1	1.71	921	919.4	1.67	921	916.6	2.54

Table A.1734: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	914.97	2.74	921	914.4	2.97	921	915.87	2.84	921	914.47	4.78
		2op	916	912.37	3.55	918	915.6	1.59	916	916	0	918	914.43	3.16
	50	rnd	919	913.27	5.04	921	915.03	3.08	921	915.67	2.71	921	914.73	3.18
		2op	916	913.13	3.56	916	915.9	0.55	921	916.23	0.97	916	915.73	0.91
51	20	rnd	919	913.6	5.34	921	916.2	2.82	921	915.4	3.17	921	914.93	3.07
		2op	916	912.9	3.61	918	916.07	0.37	918	915.97	0.67	916	916	0
	50	rnd	921	914.33	3.18	919	914.73	2.73	921	914	3.12	921	916	2.74
		2op	916	913.03	3.46	916	916	0	916	916	0	916	916	0

Table A.1735: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	909.67	5.06	919	916.13	1.61	921	914.43	2.6	912	898.63	5.33
		2op	916	910.63	4.37	921	916.5	2.3	921	915.03	3.47	910	898.4	5.7
	50	rnd	917	911	4.2	919	916.73	1.7	921	917.27	2.33	913	902.9	4.84
		2op	919	911.73	4.18	921	917.8	1.73	921	917.2	2.2	917	902.5	5.6
51	20	rnd	919	914.03	2.91	921	915.87	2.93	921	916.53	2.13	921	916.77	2.93
		2op	918	913.23	3.53	921	916.67	2.2	921	918.4	1.79	921	916.43	1.79
	50	rnd	919	914.37	3.18	921	917.4	1.63	921	917.97	1.5	919	915.6	2.51
		2op	919	913.43	3.21	921	918.23	1.72	921	918.63	1.45	921	916.63	2.31

Table A.1736: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	913.7	3.52	921	915.63	3.44	921	916.67	2.35	918	913.87	2.52
		2op	916	912.6	3.22	916	915.8	0.76	918	916.23	0.63	918	914.53	4.25
	50	rnd	919	912.77	5.65	919	914.13	3.12	921	915.43	2.75	919	915.17	3.44
51	20	rnd	916	912.13	4.17	916	915.77	0.77	921	916.6	1.48	918	915.67	1.77
		2op	918	913.3	4.18	921	914.43	4.1	919	914.73	2.35	921	915.57	3.39
	50	rnd	916	912.47	3.62	916	916	0	916	915.77	1.28	916	915.87	0.57
	20	rnd	918	911.93	3.16	919	914.73	2.83	919	915.2	2.92	921	915.43	3.65
		2op	916	911.7	3.7	916	916	0	916	916	0	916	916	0
	50	rnd	916	912.13	4.17	916	915.77	0.77	921	916.6	1.48	918	915.67	1.77

Table A.1737: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.97	3.07	921	916.73	2.39	917	903.57	6.65	883	854.37	11.74
		2op	918	915.03	2.28	921	916.97	2.17	914	903.47	5.59	898	857.9	16.44
	50	rnd	921	916.13	2.71	921	917.4	1.65	916	904.13	5.88	910	856.97	14.42
51	20	rnd	919	915.37	1.73	919	916.77	1.48	918	904.97	5.56	897	855.73	16.26
		2op	921	915.97	2.4	921	917.67	2.5	919	915.57	1.99	916	903.53	5.64
	50	rnd	916	915.83	0.91	921	917.1	1.58	917	915.23	1.81	917	905.83	5.41
	20	rnd	921	916.93	3.32	921	917.53	2.43	921	913.07	2.97	921	903.93	9.81
		2op	916	915.97	0.18	921	916.7	1.58	918	912.53	3.06	916	900.23	8.47
	50	rnd	921	916.13	2.71	921	917.4	1.65	916	904.13	5.88	910	856.97	14.42

Table A.1738: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	913.57	3.16	921	914.93	3.67	919	911.4	6.86	904	870.27	15.89
		2op	916	915.67	1.27	916	916	0	919	911.07	6.85	905	874.4	15.49
	50	rnd	921	914.17	3.73	921	914.83	2.83	921	913.37	4.39	917	889.43	16.84
51	20	rnd	916	915.83	0.91	916	916	0	916	915.3	2.04	916	892.33	17.75
		2op	919	914.2	3.37	921	915.37	3.33	919	915.2	3.25	918	904.47	10
	50	rnd	916	916	0	916	916	0	916	915.63	1.45	919	905.2	8.67
	20	rnd	919	914.87	3.37	921	915.7	3.92	919	913.93	3.22	919	910.8	6.99
		2op	916	915.87	0.73	916	916	0	916	916	0	919	909.87	5.2
	50	rnd	919	914.87	3.37	921	915.7	3.92	919	913.93	3.22	919	910.8	6.99

Table A.1739: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1569	1531.77	16.01	1536	1520.93	9.89	1541	1468.73	20.62	1426	1340.77	27.92
		2op	1560	1538.4	14.9	1535	1520.1	9.11	1497	1464.57	19.04	1479	1343.47	36.63
	50	rnd	1571	1532.17	15.04	1539	1524.23	7.19	1524	1494.17	16.9	1452	1376.63	26.57
51	20	2op	1565	1528.33	16.55	1545	1523.27	8.47	1537	1490.1	15.13	1458	1378.73	33.86
		rnd	1568	1542.07	15.85	1563	1540.53	12.04	1573	1542.2	16.01	1535	1503.2	16.73
	50	2op	1568	1547.1	10.84	1570	1543.37	12.35	1568	1542.3	10.1	1534	1504.53	15.84
	20	rnd	1562	1544.93	11.68	1565	1541.87	12.86	1556	1536.93	9.34	1524	1490.27	19.56
		2op	1565	1546.57	8.36	1569	1543.4	11.96	1553	1536.9	9.75	1530	1486.43	23.06

Table A.1740: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1556.03	10.06	1577	1553.7	13.25	1569	1546.07	14.14	1522	1489.53	24.08
		2op	1567	1555.17	3.11	1569	1561.1	6.27	1567	1548.37	11.64	1519	1486.93	18.88
	50	rnd	1573	1559.3	7.11	1576	1561.87	6.27	1571	1552.37	11.59	1554	1516.4	20.16
51	20	2op	1557	1553	3.74	1572	1565.93	4.98	1569	1557.1	5.6	1546	1521.5	14.53
		rnd	1578	1554.73	10.76	1577	1555.67	11.11	1578	1559.93	10.07	1569	1546.53	11.02
	50	2op	1565	1554.57	2.6	1572	1565.27	5	1572	1560.2	7.56	1561	1545.8	9.88
	20	rnd	1574	1555.3	11.99	1577	1559.87	9.52	1577	1561.57	9.61	1566	1548.93	11.49
		2op	1558	1553.5	4.35	1573	1564.47	5.25	1575	1565.43	4.46	1562	1550.6	6.84

Table A.1741: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1550	1530	13.45	1548	1519.97	8.86	1505	1464.73	20.44	1396	1335	31.84
		2op	1559	1531.1	15.46	1536	1519.67	9.64	1511	1464.17	25.31	1388	1330.13	40.34
	50	rnd	1557	1525.1	21.58	1540	1520.63	8.07	1534	1488.6	19.23	1447	1366.13	31.03
51	20	2op	1563	1532.83	14.8	1539	1521.73	9.79	1528	1489.13	14.68	1461	1372.9	37.23
		rnd	1577	1545.73	15.82	1564	1541.77	12.04	1562	1538.67	14.67	1536	1498.27	18.48
	50	2op	1566	1546.7	11.16	1558	1538.9	11.82	1565	1543.57	9.58	1546	1507.17	20.94
	20	rnd	1575	1546.37	14.81	1565	1540.93	11.08	1568	1538.6	10.55	1531	1488.47	19.68
		2op	1565	1547.33	13.01	1555	1541.03	7.84	1566	1539.7	11.78	1533	1490.03	22.36

Table A.1742: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1555.13	12.67	1577	1557.17	11.88	1572	1549.43	12.81	1539	1484.8	25.78
		2op	1558	1553.7	1.56	1571	1561.4	5.04	1564	1547.47	11.09	1524	1484.3	23.46
	50	rnd	1575	1557.67	8.38	1574	1558.93	8.99	1572	1557.07	8.04	1556	1512.5	22.32
51	20	2op	1558	1554.03	1.67	1575	1565.93	4.4	1571	1558.23	8.3	1551	1518.4	18.12
		rnd	1577	1556.47	12.93	1574	1556.27	12.38	1574	1556.8	9.77	1564	1538.53	15.67
	50	2op	1563	1553.03	6.83	1569	1564.17	4.45	1569	1560.13	4.55	1564	1546.47	9.51
	20	rnd	1572	1557.5	8.02	1572	1559.63	9.68	1572	1556.4	9.69	1569	1548.9	13.07
		2op	1556	1553.77	2.56	1572	1566.67	3.14	1569	1565.27	5.42	1567	1553.17	7.42

Table A.1743: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1548.77	12.73	1564	1536.27	14.22	1522	1478.7	30.79	1339	1208.97	45.04
		2op	1568	1552.13	11.48	1566	1540.47	16.09	1534	1470.1	36.61	1315	1209.73	44.28
	50	rnd	1566	1542.13	14.86	1557	1528.7	14.84	1530	1463.43	24.2	1436	1268.9	71.34
51	20	2op	1571	1547.07	10.67	1565	1537.03	14.48	1512	1469.8	25.97	1379	1260.3	64.84
		rnd	1579	1560.33	8.3	1576	1560.97	7.31	1575	1538.33	22.25	1502	1439.67	37.62
	50	2op	1564	1557.4	3.15	1571	1566.97	3.77	1571	1538.3	17.37	1501	1431.27	40.73
	20	rnd	1572	1558.2	7.23	1573	1558.57	8.12	1548	1509	20.49	1511	1445.73	34.02
		2op	1569	1559.7	5.75	1570	1558.53	6.94	1556	1512.2	29.23	1509	1449.33	31.76

Table A.1744: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1559.47	7.09	1571	1553.17	13.84	1545	1506.17	26.34	1479	1377.73	58.01
		2op	1558	1554.07	1.44	1567	1554.5	2.66	1556	1514.13	31.56	1471	1371.77	48.93
	50	rnd	1570	1556.57	8.29	1578	1555.47	10.47	1570	1535.63	20	1518	1447.43	39.19
51	20	2op	1558	1555.1	1.67	1563	1555.13	2.32	1564	1537.47	20.99	1526	1449.3	46.79
		rnd	1574	1557.73	12.21	1572	1557.8	10.24	1568	1545.97	15.93	1545	1498.47	34.62
	50	2op	1563	1554.87	2.06	1572	1556.33	4.43	1563	1550.27	7.8	1543	1489.37	33.26
	20	rnd	1574	1560.93	7.43	1570	1555.2	9.35	1568	1549.13	19.1	1567	1519.1	22.06
		2op	1566	1556.13	2.94	1573	1557.87	5.72	1564	1550.87	9.61	1562	1526.97	25.67

Table A.1745: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1555	1521.13	16.71	1560	1523.07	16.59	1533	1463.3	26.9	1407	1333.2	34.91
		2op	1559	1523.1	21.29	1542	1519.43	12.83	1530	1457.33	27.68	1448	1329.9	37.6
	50	rnd	1553	1524.63	16.07	1547	1521.13	11.5	1520	1487.8	16.87	1454	1367.3	42.09
51	20	2op	1550	1521.37	16.79	1543	1519.33	10.21	1515	1483.03	18.01	1427	1353.97	34.37
		rnd	1566	1538.97	16.23	1564	1541.43	12.47	1562	1541.3	14.88	1549	1501.97	19.48
	50	2op	1556	1534.23	16.28	1567	1542.17	10.6	1559	1539.37	12.74	1544	1500.6	24.42
	20	rnd	1561	1535.77	20.38	1556	1542.1	7.53	1558	1543.13	7.61	1537	1487.97	25.49
		2op	1568	1539.83	18.34	1556	1540	9.67	1561	1540.2	10.39	1532	1482.03	22.97

Table A.1746: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1562	1537	21.35	1570	1552.13	9.34	1559	1539.27	15.03	1542	1480.13	32.86
		2op	1540	1531.27	4.68	1564	1538.2	9.98	1561	1529.13	13.46	1527	1479.47	29.1
	50	rnd	1563	1541.27	16.96	1569	1554.33	11.25	1569	1554.1	11.96	1553	1520.53	15.39
51	20	2op	1540	1531.23	1.77	1565	1547.67	11.13	1554	1536.53	7.73	1539	1513.9	17.86
		rnd	1565	1542.07	14.96	1569	1552.93	7.54	1569	1555.57	8.03	1568	1542.63	12.34
	50	2op	1540	1531.47	2.27	1569	1546	13.42	1555	1536.33	9.15	1558	1523.1	16.08
	20	rnd	1564	1544.63	13.66	1566	1549.67	9.46	1567	1553.67	8.46	1566	1544.47	13.63
		2op	1531	1530.93	0.37	1560	1535.27	10.82	1565	1540.37	9.96	1548	1526.4	10.42

Table A.1747: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1562	1520.8	22.12	1563	1514.77	13.21	1496	1452.5	24.47	1406	1319.4	38.65
		2op	1553	1520.73	23.04	1537	1517.5	8.85	1520	1466.2	28.6	1394	1317.27	28.06
	50	rnd	1561	1523.17	21.6	1546	1516.57	11.63	1513	1480.47	18.93	1430	1345.43	34.01
51	20	2op	1554	1520.3	15.21	1545	1517.87	11.25	1521	1484.37	19.62	1390	1339.17	26.89
		rnd	1565	1539.6	17.54	1566	1534.4	12.32	1557	1540	12.59	1537	1494.8	21.04
	50	2op	1565	1535.5	15.22	1555	1540.37	10.15	1561	1540.87	10.16	1539	1498.97	20.14
	20	rnd	1561	1535.9	15.26	1556	1536.67	9.74	1559	1541.4	10.43	1539	1491.7	25.21
		2op	1559	1536.93	17.61	1563	1542.53	10.18	1569	1541.97	10.45	1522	1485.2	23.17

Table A.1748: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1558	1542.83	10.62	1567	1552.07	10.19	1564	1540.6	14.84	1524	1474.47	29.63
		2op	1552	1531.87	5.75	1566	1540.43	11.87	1567	1530.13	15.7	1507	1469.63	21.76
	50	rnd	1561	1544.43	11.72	1568	1555.77	8.03	1569	1549.2	12.12	1563	1506.6	23.88
51	20	2op	1532	1530.37	3.66	1565	1551.6	10.15	1560	1532.4	8.92	1532	1500.23	19.86
		rnd	1569	1538.77	13.46	1565	1550.37	10.9	1566	1553.33	9.16	1559	1540.8	12.67
	50	2op	1556	1532.6	6.12	1565	1541.23	11.49	1565	1538.27	10.53	1559	1523.03	17.49
	20	rnd	1566	1548.5	12.39	1567	1549.73	10.16	1569	1552.23	9.11	1560	1540.67	10.51
		2op	1531	1530.33	3.65	1561	1538.23	9.77	1565	1540.7	11.35	1546	1524.87	9.57

Table A.1749: $f_{50.412}$: transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1542.87	17.37	1560	1541.37	15.03	1520	1469.47	30.77	1315	1189.3	49.94
		2op	1569	1541.97	16.05	1557	1533.37	15.03	1528	1470.43	36.44	1317	1199.23	56.74
	50	rnd	1570	1541.33	11.56	1558	1538.8	12.74	1525	1474.53	28.1	1323	1250.83	53.26
51	20	2op	1567	1539.23	15.39	1561	1537.13	12.85	1535	1459.83	36.09	1371	1280.03	45.15
		rnd	1572	1556.77	9.28	1570	1557.07	8.87	1557	1536.03	18.04	1534	1424.37	42.66
	50	2op	1564	1555.4	6.67	1565	1557.43	2.99	1564	1534.63	13.63	1494	1412.93	39.05
	20	rnd	1568	1555.07	8.2	1568	1554.33	7.24	1561	1514.57	24.64	1495	1440.53	33.19
		2op	1566	1556.4	6.73	1566	1553.37	7.19	1556	1510.7	29.98	1500	1440.6	33

Table A.1750: $f_{50.412}$: basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1546.23	9.75	1562	1549.7	7.78	1556	1508.8	36.9	1468	1351.6	61.44
		2op	1531	1530.87	0.73	1540	1531.3	2.67	1547	1503.03	29.32	1454	1356.67	52.29
	50	rnd	1565	1549.1	9.9	1569	1550.03	13.76	1553	1522.43	20.52	1526	1438.1	43.87
51	20	2op	1531	1531	0	1540	1530.87	2.32	1545	1521.6	14.24	1496	1412.93	45.63
		rnd	1565	1550.43	11.58	1566	1552.27	8.52	1569	1541.37	17.55	1537	1482.17	30.1
	50	2op	1531	1531	0	1540	1531.9	2.75	1548	1521.93	15.76	1536	1468	43.1
	20	rnd	1565	1548.93	11.79	1565	1548.4	8.4	1564	1544	15.39	1563	1511.83	39.49
		2op	1531	1531	0	1535	1530.93	1.91	1554	1531.37	7.7	1538	1498.87	34

Table A.1751: $f_{50.412}$: transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1548	1517.5	14.42	1538	1512.9	11.55	1503	1456.23	20.62	1396	1328.43	34.58
		2op	1561	1512.77	20.99	1524	1507.47	9.62	1522	1459.4	25.16	1432	1323.73	36.98
	50	rnd	1551	1510.7	17.66	1531	1511.77	9.44	1499	1478.2	12.5	1440	1358.53	30.69
51	20	2op	1560	1521.7	19.97	1541	1511.9	11.73	1516	1476.73	14.83	1411	1356.6	29.97
		rnd	1559	1527.73	17.02	1553	1533.27	11.16	1557	1539.7	13.18	1536	1493.13	19.15
	50	2op	1563	1537.93	13.38	1565	1534.67	13.97	1558	1534	13.64	1528	1489.37	18.75
	20	rnd	1547	1530.47	12.06	1551	1531.3	10.14	1555	1529.57	12.33	1528	1475.2	25.76
		2op	1558	1532.13	13.01	1555	1530.13	12.04	1565	1526.93	14.7	1539	1485.5	25.54

Table A.1752: $f_{50.498}$: basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1558	1547.73	8.4	1566	1549.77	9.36	1566	1543.67	8.65	1525	1480.47	26.05
		2op	1553	1548.27	2.43	1555	1547.1	4.33	1551	1543.5	5.22	1514	1477.43	22.26
	50	rnd	1562	1547.57	10.02	1567	1549.43	9.19	1566	1550.23	10.26	1558	1516.5	17.79
51	20	2op	1548	1547.5	2.11	1556	1548.23	3.28	1552	1547.33	2.71	1548	1511.1	16.08
		rnd	1562	1546.03	9.14	1565	1550.37	10.02	1567	1550.23	9.86	1559	1535.3	16.62
	50	2op	1557	1548.37	1.67	1558	1547.27	5.4	1557	1546.7	5.06	1551	1533.47	9.96
	20	rnd	1565	1548.8	9.06	1564	1550.8	6.17	1568	1550.4	7.18	1563	1538.67	14.38
		2op	1548	1548	0	1548	1548	0	1550	1548.07	0.37	1554	1541.07	8.21

Table A.1753: $f_{50.498}$: transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1536	1510.6	14.9	1538	1510.67	12.37	1515	1463	26.43	1426	1321.13	35.58
		2op	1548	1513.63	19.01	1526	1504.97	8.93	1471	1441.03	16.2	1373	1317.63	32.45
	50	rnd	1546	1511.93	15.14	1527	1508.13	6.82	1522	1474.6	18.32	1436	1357.9	39.03
51	20	2op	1558	1517.07	14.37	1534	1512.97	8.62	1515	1473.67	15.39	1410	1353.67	28.78
		rnd	1561	1534.27	15.77	1556	1535	9.33	1553	1527.53	10.74	1517	1485.57	17.05
	50	2op	1560	1532.47	19.46	1558	1527.97	14.56	1559	1528.53	11.6	1525	1488	16.14
	20	rnd	1563	1530.1	14.09	1563	1529.83	12.33	1557	1529.1	14.65	1507	1468.47	20.12
		2op	1550	1530	15.84	1548	1527.03	11.05	1550	1530.47	12.12	1517	1475.87	25.3

Table A.1754: $f_{50.498}$: basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1561	1545.63	10.18	1566	1548.2	12.09	1567	1535.57	12.75	1513	1470.4	19.47
		2op	1560	1548.23	4.62	1552	1547.53	3.32	1555	1541.07	9.01	1503	1467	23.86
	50	rnd	1558	1546.1	9.13	1565	1549.37	7.86	1565	1546.27	12.58	1552	1511.27	19.78
51	20	2op	1553	1548.17	0.91	1553	1547.6	2.3	1554	1546.53	4.16	1539	1503.83	18.01
		rnd	1561	1543.83	8.96	1566	1548.03	10.46	1568	1549.93	9.06	1562	1531.2	17.51
	50	2op	1553	1547.1	5.13	1556	1547.4	4.69	1557	1548.2	3.36	1553	1535.23	10.18
	20	rnd	1561	1547.97	8.28	1566	1551.77	6.07	1564	1549	8.84	1562	1544.73	10.46
		2op	1548	1548	0	1549	1548.03	0.18	1550	1547.97	0.85	1554	1541.8	6.05
	50	rnd	1561	1547.97	8.28	1566	1551.77	6.07	1564	1549	8.84	1562	1544.73	10.46

Table A.1755: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1562	1540.77	13.98	1565	1533.47	18.97	1521	1463.37	38.83	1345	1226.83	58.99
		2op	1562	1541.53	12.71	1559	1534.8	15.81	1521	1466.1	40.23	1320	1201.37	51
	50	rnd	1567	1534.97	12.59	1564	1531.27	14.45	1534	1455.4	35.54	1358	1280.07	43.72
51	20	2op	1557	1536.2	11.65	1553	1524.7	14.8	1516	1471.47	21.21	1339	1246.73	44.55
		rnd	1565	1551.53	7.87	1563	1553.97	7.23	1565	1529.27	22.1	1491	1414.83	46.01
	50	2op	1550	1547.77	1.7	1566	1549.93	3.58	1563	1534.97	16.57	1498	1419.33	36.07
	20	rnd	1567	1548.9	8.71	1570	1550.03	9.56	1542	1500.6	22.68	1492	1434.37	30.31
		2op	1553	1547.37	3.68	1561	1547.63	5.99	1548	1508.07	17.18	1506	1447.73	35.76
	50	rnd	1567	1548.9	8.71	1570	1550.03	9.56	1542	1500.6	22.68	1492	1434.37	30.31

Table A.1756: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1548.07	7.96	1560	1547.63	8.86	1557	1498.83	41.37	1414	1356.83	42.48
		2op	1548	1548	0	1548	1547.87	0.73	1546	1514.6	26.97	1478	1357.57	60.04
	50	rnd	1564	1548	7.82	1563	1550.23	9.08	1565	1530.03	21.16	1511	1444.1	38.3
51	20	2op	1548	1548	0	1557	1547.67	3.89	1550	1526.83	19.23	1527	1438.3	52.04
		rnd	1561	1547.9	6.34	1567	1548.57	11.5	1557	1542.6	10.43	1529	1488.03	24.28
	50	2op	1548	1548	0	1548	1548	0	1551	1543.9	8.84	1546	1491.37	31.48
	20	rnd	1564	1549.37	7.45	1560	1545.13	10.31	1563	1544.03	12.16	1568	1520	24.79
		2op	1548	1548	0	1548	1546.23	6.94	1553	1544.17	9.73	1553	1516.1	25.15
	50	rnd	1564	1549.37	7.45	1560	1545.13	10.31	1563	1544.03	12.16	1568	1520	24.79

Table A.1757: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2651	2597.67	29.78	2634	2562.67	31.59	2518	2418.5	69.21	2173	2051.87	57.65
		2op	2645	2596.77	26.41	2602	2549.5	26.2	2484	2391.27	57.89	2269	2055.17	74.61
	50	rnd	2673	2629.07	22.96	2622	2568.23	20.03	2574	2480	40.29	2249	2147.53	71.34
51	20	rnd	2674	2625.17	24.84	2617	2568.6	21.59	2548	2479.93	52.88	2294	2164.97	77.72
		2op	2690	2643.03	24.64	2686	2625.33	25.18	2658	2582.03	37.09	2550	2403.87	54.51
	50	rnd	2734	2655.57	28.68	2700	2635.67	24.95	2646	2584.5	31.23	2488	2406.17	42.89
	20	rnd	2710	2663.8	26.88	2680	2622.53	25.93	2686	2609.07	34.92	2544	2438.33	60.83
		2op	2707	2666.87	23.9	2675	2625.03	23.96	2647	2587.93	31.65	2561	2463.3	66

Table A.1758: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2761	2727.23	22.64	2768	2718.57	28.28	2704	2621.47	42.71	2517	2410.03	61.1
		2op	2778	2756.23	12.55	2769	2725.43	26.92	2746	2645.17	43.27	2549	2427.8	67.19
	50	rnd	2763	2734.97	16.72	2757	2730.3	18.78	2748	2696.37	24.2	2665	2547.13	64.9
51	20	rnd	2778	2757.27	13.44	2779	2756.13	12.94	2766	2702.9	35.75	2654	2536.93	64.26
		2op	2761	2729.03	22.14	2768	2732.17	17.56	2746	2705.67	23.99	2731	2605.53	49.78
	50	rnd	2771	2757.3	13.51	2766	2748.3	15.73	2770	2724.63	24.25	2752	2631.9	41.52
	20	rnd	2762	2733.3	17.65	2769	2740.17	17.05	2765	2727.47	19.08	2728	2641.2	47.11
		2op	2775	2759.43	9.37	2769	2759.97	5.01	2765	2750.53	12.5	2735	2669.5	46.15

Table A.1759: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2635	2599.53	19.85	2638	2557.13	35.18	2511	2408.7	61.01	2292	2038.5	77.97
		2op	2672	2605.43	30.25	2638	2563.97	34.36	2538	2422.17	62.82	2130	2008.5	63.13
	50	rnd	2673	2623.97	23.78	2635	2566.57	25.09	2569	2476.57	46.72	2301	2133.4	89.13
51	20	rnd	2669	2624.77	23.45	2624	2569.63	24	2541	2460.6	53.32	2302	2110.73	93.9
		2op	2705	2627.27	30.94	2665	2621.17	19.74	2639	2583.7	32.15	2501	2403.27	47.6
	50	rnd	2702	2651.63	28.98	2691	2631.3	24.82	2663	2590.57	35.72	2497	2403.27	52.33
	20	rnd	2707	2656.87	24.05	2680	2620.77	22.35	2691	2584	31.07	2541	2449.07	48.2
		2op	2701	2664.63	19.27	2670	2621.93	23.75	2640	2576.1	26.67	2583	2463.53	50.73

Table A.1760: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2767	2729.27	23.82	2758	2716.83	22.19	2736	2628.9	46.7	2559	2432.37	67.49
		2op	2771	2749.27	16.92	2772	2739.13	17.79	2715	2644.63	35.28	2526	2431.83	60.31
	50	rnd	2773	2730.17	20.99	2761	2729.63	18.93	2719	2667.7	29.52	2646	2508	66.58
51	20	rnd	2770	2756.67	11.82	2771	2747.2	18.61	2768	2697.03	36.32	2649	2507.77	63.22
		2op	2770	2756.67	11.82	2771	2747.2	18.61	2768	2697.03	36.32	2649	2507.77	63.22
	50	rnd	2770	2729.33	20.35	2762	2726.67	20	2741	2704.47	26.3	2727	2601.23	57.27
	20	2op	2771	2756.77	9.21	2771	2754.07	15.07	2764	2729	21.61	2693	2600.7	61.05
		2op	2771	2756.77	9.21	2771	2754.07	15.07	2764	2729	21.61	2693	2600.7	61.05
	50	rnd	2775	2737.2	15.12	2772	2736.4	21.57	2753	2729.77	14.79	2707	2636.17	47.7
	20	2op	2768	2757.57	9.35	2773	2758.8	8.94	2764	2747.77	15.06	2724	2660.4	48.7
		2op	2768	2757.57	9.35	2773	2758.8	8.94	2764	2747.77	15.06	2724	2660.4	48.7
	50	rnd	2775	2737.2	15.12	2772	2736.4	21.57	2753	2729.77	14.79	2707	2636.17	47.7
	20	2op	2768	2757.57	9.35	2773	2758.8	8.94	2764	2747.77	15.06	2724	2660.4	48.7
		2op	2768	2757.57	9.35	2773	2758.8	8.94	2764	2747.77	15.06	2724	2660.4	48.7

Table A.1761: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2691	2630.3	34.56	2666	2617.7	29.27	2562	2455.07	53.8	2089	1902.7	83.25
		2op	2699	2646.13	30.61	2701	2634.7	33.32	2594	2473.3	58.73	2104	1917.27	80.15
	50	rnd	2675	2642.7	18.46	2670	2604.93	24.8	2564	2491.03	40.15	2202	2030.33	91.3
51	20	rnd	2710	2657.13	24.09	2684	2621.17	34.05	2572	2478.67	55.47	2214	2058.73	73.88
		2op	2710	2657.13	24.09	2684	2621.17	34.05	2572	2478.67	55.47	2214	2058.73	73.88
	50	rnd	2768	2733.5	20.34	2759	2733.93	18.09	2718	2650.3	44.89	2451	2318.73	70.44
	20	2op	2775	2750.83	15.57	2766	2749.27	14.45	2760	2674.07	43.16	2475	2337.2	63.47
		2op	2775	2750.83	15.57	2766	2749.27	14.45	2760	2674.07	43.16	2475	2337.2	63.47
	50	rnd	2760	2709.27	21.72	2759	2691.73	23.67	2683	2616.2	33.65	2563	2416.17	67.69
	20	2op	2752	2720.87	24.43	2772	2701.67	29.95	2660	2614.7	28.62	2464	2353.37	57.17
		2op	2752	2720.87	24.43	2772	2701.67	29.95	2660	2614.7	28.62	2464	2353.37	57.17
	50	rnd	2760	2709.27	21.72	2759	2691.73	23.67	2683	2616.2	33.65	2563	2416.17	67.69
	20	2op	2752	2720.87	24.43	2772	2701.67	29.95	2660	2614.7	28.62	2464	2353.37	57.17
		2op	2752	2720.87	24.43	2772	2701.67	29.95	2660	2614.7	28.62	2464	2353.37	57.17
	50	rnd	2760	2709.27	21.72	2759	2691.73	23.67	2683	2616.2	33.65	2563	2416.17	67.69

Table A.1762: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2765	2736.87	15.65	2762	2735.4	19.1	2703	2620.67	44.11	2514	2338.33	79.24
		2op	2770	2759.93	7.23	2770	2755.17	12.32	2708	2647.17	41.28	2469	2289.2	95.24
	50	rnd	2765	2739.37	12.39	2766	2740.53	15.06	2717	2657.67	38.91	2629	2452.6	76.36
51	20	rnd	2769	2762.23	1.38	2770	2757.77	7.8	2749	2673.13	46.27	2551	2418.47	77.82
		2op	2769	2762.23	1.38	2770	2757.77	7.8	2749	2673.13	46.27	2551	2418.47	77.82
	50	rnd	2767	2738.4	16.69	2757	2737.37	13.76	2746	2688.63	50.24	2689	2547.67	62.79
	20	2op	2762	2758.4	8.35	2771	2759.2	8.23	2762	2722.13	31.2	2678	2582.67	46.35
		2op	2762	2758.4	8.35	2771	2759.2	8.23	2762	2722.13	31.2	2678	2582.67	46.35
	50	rnd	2761	2738.43	18.42	2759	2734.57	14.26	2765	2702.57	33.1	2702	2606.1	55.4
	20	2op	2762	2762	0	2767	2757.83	11.95	2764	2729.5	22.38	2727	2625.37	49.91
		2op	2762	2762	0	2767	2757.83	11.95	2764	2729.5	22.38	2727	2625.37	49.91
	50	rnd	2761	2738.43	18.42	2759	2734.57	14.26	2765	2702.57	33.1	2702	2606.1	55.4

Table A.1763: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2670.4	26.23	2681	2613.67	31.9	2603	2470.17	62.22	2296	2110.23	77.27
		2op	2738	2670.2	26.52	2672	2619	30.82	2580	2463.13	80.15	2220	2083.07	64.89
	50	rnd	2744	2688.37	25.23	2696	2639.2	23.76	2650	2546.6	54.64	2354	2171.43	84
51	20	rnd	2773	2688.47	29.8	2694	2641.27	17.89	2636	2546.93	49.46	2302	2174.63	63.9
		2op	2756	2712.63	24.68	2816	2702.4	34.67	2699	2649.53	32.12	2554	2451.87	58.7
	50	rnd	2754	2705.27	27.71	2756	2697.6	26.36	2747	2659.03	41.45	2540	2447.17	41.21
	20	rnd	2760	2724.97	20.18	2746	2690.07	18.93	2741	2651.43	31.81	2602	2495.37	59.71
		2op	2778	2734.47	24.16	2740	2685.2	18.2	2725	2659.03	29.89	2621	2502.33	68.71

Table A.1764: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2834	2792.73	25.61	2825	2783.2	23.82	2775	2696.17	36.74	2608	2470.27	56.66
		2op	2818	2794.47	16.41	2807	2775.67	20.53	2763	2697.87	42.02	2618	2490.03	67.75
	50	rnd	2835	2806.23	17	2826	2799.4	18.92	2812	2752.57	27.89	2669	2577.5	58.93
51	20	rnd	2812	2801.63	8.98	2827	2795.6	13.81	2808	2743.6	37.75	2692	2571.3	69.18
		2op	2834	2801.1	19.41	2842	2806.87	14.86	2830	2785.7	23.51	2796	2670.13	55.42
	50	rnd	2818	2802.63	9.93	2810	2794.97	11.49	2808	2771.33	22.25	2756	2665.63	48.93
	20	rnd	2827	2805.73	14.67	2834	2809.6	14.96	2831	2797.13	20.96	2826	2720.8	55.15
		2op	2813	2803.83	6.97	2817	2805.4	5.8	2815	2795.57	14.54	2797	2715.83	53.66

Table A.1765: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2715	2663.83	29.75	2673	2619.33	31.03	2554	2458.93	65.7	2194	2024.67	70.93
		2op	2737	2662.1	26.31	2673	2618.07	31.47	2600	2479.73	64.89	2181	2047.57	60.99
	50	rnd	2736	2697.47	24.96	2700	2632.57	25.27	2606	2526.1	53.32	2303	2159.4	83.73
51	20	rnd	2738	2685.93	21.86	2715	2631.23	23.3	2655	2530.87	60.13	2279	2163.5	68.1
		2op	2737	2704.73	22.67	2747	2696.67	23.78	2737	2649.1	47.63	2551	2445.23	46.46
	50	rnd	2774	2709.07	32.06	2764	2695.73	27.09	2721	2654	43.4	2571	2460.47	63.35
	20	rnd	2769	2727.53	23.08	2730	2684.33	19.58	2721	2649.4	31.65	2604	2508.07	60.44
		2op	2772	2724.27	25.96	2745	2695.73	22.1	2719	2660.6	33.16	2686	2512.1	72.34

Table A.1766: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2826	2794.1	23.9	2820	2779.93	22.54	2774	2694.67	46.33	2615	2473.73	72.99
		2op	2824	2790.97	17.95	2814	2782.53	22.49	2784	2706.03	44.49	2633	2475.67	75.86
	50	rnd	2827	2803.83	17.26	2825	2798.9	19.55	2815	2743.13	36.46	2729	2575.57	72.95
51	20	2op	2814	2799.97	10.3	2820	2796.8	13.39	2806	2744.1	36.47	2694	2587.07	60.32
		rnd	2819	2797.23	18.67	2834	2803.43	20.65	2826	2769.33	29.56	2748	2671.97	45.49
	50	2op	2813	2794.87	17.22	2812	2798	10.94	2803	2772.1	21.49	2773	2681.17	58.89
	20	rnd	2825	2804.83	14.54	2835	2808.87	16.57	2835	2794.17	23.03	2774	2705.6	48.24
		2op	2814	2804.2	6.66	2816	2801.03	10.62	2815	2792.5	17.23	2789	2701.77	53.55
	50	rnd	2825	2804.83	14.54	2835	2808.87	16.57	2835	2794.17	23.03	2774	2705.6	48.24
	50	2op	2814	2804.2	6.66	2816	2801.03	10.62	2815	2792.5	17.23	2789	2701.77	53.55

Table A.1767: f_{100_415} : transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2745	2704.23	20.22	2748	2683.8	35.06	2582	2502.93	67.3	2168	1936.97	100.24
		2op	2809	2712.77	30.79	2788	2694.83	39.34	2595	2504.23	62.18	2147	1933.3	78.21
	50	rnd	2753	2712	16.28	2734	2680.23	32.79	2637	2525.2	65.24	2209	2061.87	77.35
51	20	2op	2781	2710.6	23.78	2761	2675.5	27.73	2647	2551.47	45.7	2247	2035.7	96.42
		rnd	2835	2805.5	19.66	2835	2802.4	17.92	2812	2722.6	52.41	2477	2349.3	66.11
	50	2op	2810	2795.03	12.05	2810	2796.07	13.02	2790	2715.8	42.52	2514	2367.83	66.35
	20	rnd	2827	2778.37	25.77	2814	2766	33.02	2744	2687.63	31.23	2545	2437.73	69.23
		2op	2818	2774.43	20.38	2803	2768.23	23.67	2749	2670.23	40.29	2534	2445.4	52.89
	50	rnd	2827	2778.37	25.77	2814	2766	33.02	2744	2687.63	31.23	2545	2437.73	69.23
	50	2op	2818	2774.43	20.38	2803	2768.23	23.67	2749	2670.23	40.29	2534	2445.4	52.89

Table A.1768: f_{100_415} : basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2837	2806.9	15.76	2836	2797.73	19.95	2779	2681.23	53.81	2507	2337.83	92.85
		2op	2814	2801.3	9.34	2814	2798.57	12.65	2789	2689.3	44.04	2498	2334.83	84.47
	50	rnd	2839	2809.8	14.98	2839	2807.03	17.11	2807	2712.13	53.32	2647	2508.07	65.18
51	20	2op	2816	2806.03	4.77	2829	2804.63	8.48	2790	2714.33	59.57	2641	2509.67	66.07
		rnd	2836	2811.67	12.97	2842	2808.2	16.34	2819	2756.7	34.94	2714	2619.93	50.39
	50	2op	2815	2806.37	4.56	2813	2803.97	5.6	2804	2762	43.44	2737	2614.17	62.68
	20	rnd	2836	2812.87	10.23	2838	2805.67	15.1	2827	2778.5	28.54	2752	2683.3	43.29
		2op	2810	2805.8	2.8	2810	2800.83	14.45	2806	2757.87	37.38	2775	2690.77	51.58
	50	rnd	2836	2812.87	10.23	2838	2805.67	15.1	2827	2778.5	28.54	2752	2683.3	43.29
	50	2op	2810	2805.8	2.8	2810	2800.83	14.45	2806	2757.87	37.38	2775	2690.77	51.58

Table A.1769: f_{100_415} : transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2604	2546.13	26.12	2560	2495.8	34.64	2446	2346.83	59.01	2165	2004.23	71.38
		2op	2587	2535.4	25.74	2568	2497.6	32.51	2447	2351.5	49.46	2162	2025.43	65.76
	50	rnd	2626	2562.23	25.01	2562	2516.53	17.61	2498	2425.07	53.1	2377	2114.1	103.81
51	20	rnd	2620	2562.93	20.92	2585	2514.23	24.35	2551	2439.5	56.2	2318	2124.23	77.35
		2op	2664	2592.9	34.62	2633	2573.77	22.16	2601	2529.17	44.83	2500	2375.07	50.47
	50	rnd	2640	2579.3	33.15	2612	2576.17	22	2580	2523.73	33.34	2515	2354.57	56.05
	20	rnd	2666	2605.87	23.03	2591	2564.57	15.87	2590	2533.53	28.22	2484	2388.03	63.08
		2op	2653	2608.67	23.97	2610	2568.9	21.86	2609	2543.63	31.87	2519	2396.87	65.32

Table A.1770: f_{100_512} : basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2705	2672.1	16.21	2697	2656.03	21.38	2682	2576.9	52.99	2508	2365.4	55.38
		2op	2707	2684.93	14.97	2700	2678.47	11.56	2687	2595.17	43.7	2520	2397.67	52.25
	50	rnd	2702	2673.87	16.92	2710	2674.7	21.24	2680	2629.63	31.46	2604	2472.27	55.62
51	20	rnd	2706	2685.27	12.45	2702	2682.03	14.27	2678	2638.13	16.07	2623	2485.97	58.91
		2op	2706	2679.43	15.49	2708	2675.8	20.66	2702	2658.87	21.4	2648	2555.1	49.05
	50	rnd	2701	2688.53	13.51	2715	2687.03	13.09	2686	2659.17	18.76	2651	2568.43	58.53
	20	rnd	2708	2677.67	16.52	2717	2680.33	19.34	2701	2673.63	16.48	2661	2573.97	48.43
		2op	2699	2689.9	8.14	2700	2692.63	4.84	2698	2682.1	11.49	2669	2604.43	39.38

Table A.1771: f_{100_512} : transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2596	2552.97	21.46	2571	2505.8	35.91	2466	2352.6	64.54	2090	1990.2	51.81
		2op	2599	2546.4	30.48	2576	2498.27	30.87	2449	2350.4	56.58	2087	1995.23	52.68
	50	rnd	2625	2560.43	25.18	2576	2520.8	25.67	2515	2413.47	43.86	2270	2117.6	80.34
51	20	rnd	2629	2563.6	30.78	2566	2508	22.28	2492	2421.7	40.67	2211	2087.9	78.24
		2op	2632	2589.9	26.74	2625	2572.53	24.97	2618	2527.93	51.12	2491	2366.8	51.13
	50	rnd	2656	2587.27	30.15	2621	2573.2	20.2	2596	2536.5	32.6	2513	2371.73	51.1
	20	rnd	2639	2596.27	20.72	2617	2562.87	18.71	2603	2532.77	40.85	2477	2386.1	52.21
		2op	2653	2607	23.83	2612	2562.27	23.53	2630	2542.07	35.73	2511	2400.7	53.9

Table A.1772: f_{100_512} : basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2702	2668.57	23.51	2699	2658.27	22.05	2632	2574.47	38.59	2537	2396.93	60.72
		2op	2700	2674.43	15.84	2701	2664.1	21.3	2679	2587.97	40.4	2515	2384.97	58.2
	50	rnd	2702	2680.37	13.37	2703	2674.83	15.58	2671	2627.97	24.35	2561	2470.87	47.87
51	20	rnd	2704	2690.17	8.11	2700	2683.5	10.86	2691	2631	30.78	2552	2450.3	53.24
		2op	2704	2673.8	17.58	2701	2675.83	15.7	2699	2649.03	27.64	2634	2549.9	42.96
	50	rnd	2701	2681.83	21.38	2704	2687.5	11.54	2694	2651.73	26.45	2633	2567.43	32.58
	20	rnd	2699	2677.9	15.16	2707	2684.2	13.82	2707	2678.3	15.29	2677	2596.47	47.68
		2op	2703	2689.6	8.64	2701	2688.47	10.71	2706	2684.8	14.21	2682	2597.03	40.97
	50	rnd	2703	2689.6	8.64	2701	2688.47	10.71	2706	2684.8	14.21	2682	2597.03	40.97

Table A.1773: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2629	2584.97	26.9	2620	2565.33	35.29	2537	2419	61.4	1987	1859.77	75.69
		2op	2635	2592.93	28.07	2618	2570.8	30.9	2523	2430.07	52.35	2057	1879.37	72
	50	rnd	2624	2592.8	23.32	2622	2556.13	29.43	2491	2408	41.44	2216	1966.67	105.87
51	20	rnd	2632	2593.37	19.65	2631	2560.5	36.39	2527	2430.7	47.14	2142	1973.93	89.85
		2op	2705	2671.87	20.81	2702	2677.67	13.33	2673	2595.63	47.6	2414	2267.1	88.97
	50	rnd	2701	2681.3	12.3	2701	2682.3	10.39	2685	2601.9	39.04	2411	2299.73	73.03
	20	rnd	2694	2648.83	19.21	2676	2629.6	23.73	2606	2546.83	36.73	2464	2341.37	50.3
		2op	2702	2659.33	20.73	2698	2647.9	22.91	2604	2553.07	28.15	2459	2347.37	49.19
	50	rnd	2702	2659.33	20.73	2698	2647.9	22.91	2604	2553.07	28.15	2459	2347.37	49.19

Table A.1774: f_{100_512} : basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2705	2676.93	12.83	2708	2670.87	20.24	2666	2580.47	40.65	2409	2279.93	80.02
		2op	2701	2692.47	6.96	2704	2682.2	14.01	2661	2570.9	49.93	2555	2255.77	96.9
	50	rnd	2702	2682.87	10.87	2702	2681.23	14.74	2668	2594.1	40.37	2567	2386.93	82.35
51	20	rnd	2700	2693.13	4.81	2699	2685.57	11.71	2688	2611.23	44.84	2543	2411.03	56.76
		2op	2702	2678.7	13.84	2703	2676.63	16.86	2693	2651.17	21.86	2611	2506.53	58.99
	50	rnd	2700	2693.3	5.86	2706	2692.97	5.55	2700	2646.47	38.04	2604	2506.2	52.82
	20	rnd	2699	2684.83	11	2707	2683.77	14.47	2700	2657.83	26.41	2663	2549.77	56.79
		2op	2696	2695.13	0.35	2700	2687.1	13.11	2700	2642.27	33.25	2651	2562.57	35.95
	50	rnd	2696	2695.13	0.35	2700	2687.1	13.11	2700	2642.27	33.25	2651	2562.57	35.95

Table A.1775: f_{100_512} : transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16422	16187.07	134.67	15885	15429.97	229.03	13301	12536.83	367.54	11110	10515.73	198.73
		2op	16530	16228.4	116.11	15750	15446.03	203.32	13413	12624.07	381.94	11006	10503.1	217.72
	50	rnd	16427	16200.77	118.11	16123	15744.4	206.13	14534	13852.5	381.04	11331	10783.93	324.17
51	20	rnd	16529	16234.67	145.35	16132	15809.8	161.87	14572	13880.77	365.47	11306	10810.07	263.65
		2op	16755	16426.13	147.86	16585	16309.03	135.82	15671	15064.8	293.73	13256	12405.2	321.21
	50	rnd	16656	16489.6	103.54	16634	16324.13	151.5	15444	14930.47	345.66	13017	12396.03	290.92
	20	rnd	16809	16481.53	130.78	16605	16366.63	112.67	15951	15584.4	185.26	13783	12962.1	379.52
		2op	16662	16469.2	134.02	16654	16458.93	114.36	16077	15697.17	225.04	13734	13042.07	378.56

Table A.1776: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17814	17668.9	76.51	17710	17512.2	104.1	17249	16949.07	192.03	15629	14940.77	450.98
		2op	17836	17724.67	71.31	17702	17520.57	105.89	17321	16923.43	221.97	15641	14923.13	465.03
	50	rnd	17852	17722.73	52.93	17754	17565.27	103.74	17506	17256.23	137.48	16490	15973.27	310.67
51	20	rnd	17832	17761.07	49.74	17781	17603.47	96.92	17563	17269.13	182.61	16700	16043.37	383.39
		2op	17806	17704.97	68.6	17727	17569.97	94.42	17680	17433.8	129.51	17053	16575.67	274.87
	50	rnd	17822	17721.23	59.81	17772	17626.77	79.88	17676	17511.43	104.81	17262	16665.17	301.22
	20	rnd	17833	17736.57	62.19	17767	17616.43	86.81	17711	17535.3	133.49	17238	16915.37	225.09
		2op	17845	17750.3	59.84	17789	17662.27	73.45	17741	17589.77	84.03	17349	17029.43	215.02

Table A.1777: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16443	16232.43	110.27	15857	15434.1	233.9	13254	12518.43	431.97	10919	10528.43	200.88
		2op	16463	16184.87	133.96	15913	15468.93	229.45	13164	12518.3	496.66	10959	10503.77	208.28
	50	rnd	16418	16159.97	168.06	16107	15716.93	203.48	14241	13606.3	445.74	11159	10679.87	262.83
51	20	rnd	16379	16198.7	123.85	16024	15771.07	146.14	14294	13716.7	412.65	11130	10714.8	240.59
		2op	16693	16467.5	138.11	16539	16322.17	109.54	15612	15048.97	325.15	13160	12373.8	234.9
	50	rnd	16615	16424.43	118.04	16610	16331.9	129.57	15654	15090.2	295.43	12854	12350.77	253.04
	20	rnd	16646	16443.4	114.9	16815	16420.63	140.71	15941	15613.73	252.45	13648	13041.93	358.12
		2op	16750	16466.13	124.69	16578	16437.23	105.77	16073	15653.9	182.07	13548	12932.7	380.15

Table A.1778: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17839	17665.27	82.64	17736	17536.87	89.99	17320	16957.1	197.82	15789	15019.87	453.26
		2op	17828	17699.53	72.16	17686	17522.93	93.23	17395	16942.6	262.17	15764	14866.53	434.27
	50	rnd	17819	17699.73	64.55	17723	17562.3	81.1	17558	17252.6	139.66	16607	15942.23	362.9
51	20	2op	17895	17740.43	58.6	17740	17537.07	92.32	17525	17277.03	134.99	16802	15831.33	379.83
		rnd	17820	17701.4	65.94	17733	17563.27	80.76	17679	17443.4	143.67	16951	16641.33	222.38
	50	2op	17864	17726.33	81.23	17755	17592.3	77.43	17622	17459.5	95.61	17274	16692.7	247.38
	20	rnd	17872	17732.2	68.47	17857	17625.13	100.8	17736	17544.57	95.24	17378	17004.77	222.85
		2op	17838	17760.37	44.84	17796	17659.33	80.17	17686	17536.97	83.64	17391	17037.17	205.29
	50	rnd												

Table A.1779: $f_{508.354}$: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16808	16548.03	131.49	16683	16522.1	108.48	14483	13616.93	374.13	10948	10635.27	174.51
		2op	16945	16594.53	131.09	16724	16501.03	124.17	14568	13456.17	456.66	11000	10594.93	239.63
	50	rnd	16591	16348.27	134.14	16569	16351.27	116.3	14589	13839.07	452.35	11211	10579.1	246.55
51	20	2op	16680	16423.97	124.6	16545	16348.93	123.88	14531	13809.07	456.37	11117	10560.13	247.63
		rnd	17243	17006.87	142	17189	16990.23	123.22	16574	15954.23	342.07	12920	12144	285.1
	50	2op	17288	17017.43	121.88	17288	17049.73	115.67	16490	15949.83	328.4	12793	12138.77	267.42
	20	rnd	16952	16742.27	128.31	16947	16735.43	132.38	16490	15996.77	188.15	13267	12696.8	432.28
		2op	17066	16802.63	124.17	17066	16779.43	123.06	16403	15996.6	245.55	13432	12801.67	398.17
	50	rnd												

Table A.1780: $f_{508.354}$: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17810	17697.53	60.54	17710	17602.07	78.03	17286	16976.8	168.38	15099	14637.2	314.42
		2op	17837	17735.87	56.38	17782	17646.93	66.94	17309	16978.97	201.77	15248	14595.5	382.95
	50	rnd	17831	17750.07	50.22	17834	17714.63	70.44	17565	17276.4	167.23	16313	15525.23	328.02
51	20	2op	17822	17765.77	41.45	17823	17710.8	65.94	17642	17320.33	199.96	16134	15608.33	311.89
		rnd	17834	17734.33	43.45	17834	17698.23	51.34	17681	17503.23	105.62	16681	16107.53	231.81
	50	2op	17861	17756.27	45.94	17842	17736.27	51.67	17759	17561.1	102.68	16699	16097.97	233.78
	20	rnd	17883	17776.63	55.54	17821	17714.8	44.94	17763	17583.33	76.85	16918	16555.7	254.8
		2op	17859	17787.53	42.1	17812	17741.13	42.59	17703	17594.63	65.28	17292	16608.17	304.73
	50	rnd												

Table A.1781: $f_{508.354}$: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	20267	19992.9	133.59	19178	18723.63	249.6	15920	15016.03	483.65	13251	12771.9	249.46
		2op	20215	20004.4	121.7	19389	18782.07	313.72	15864	15012.97	478.49	13397	12795.23	290.95
	50	rnd	20211	19947.13	128.25	19764	19378.43	208.08	17450	16444.13	577.4	14049	13146.33	365.6
51	20	rnd	20533	20286.23	131.51	20305	19952.9	183.62	19131	18158.87	427.21	15422	14952.37	246.47
		2op	20557	20275.73	129.2	20515	20032.17	217.93	18968	18134.1	482.75	15831	15044.17	307.67
	50	rnd	20556	20291.57	144.22	20455	20101.97	155.2	19502	18952.73	378.46	16344	15546.43	414.92
		2op	20718	20295.43	178.33	20468	20148.1	157.48	19676	19027.83	290.94	16296	15523.37	396.69

Table A.1782: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22110	21898.5	80.85	21783	21650.03	87.07	21558	20934.13	280.16	19828	18358.93	543.06
		2op	22096	21966.03	82.22	21933	21667.03	148.38	21545	21013.4	229.02	19227	18463.07	433.05
	50	rnd	22095	21941.17	70.4	21953	21774.63	141.1	21652	21360.1	174.59	20361	19723.23	456.34
51	20	rnd	22085	21988.27	61.12	22009	21805.8	109.13	21695	21451.13	176.27	20290	19676.43	354.58
		2op	22138	21892.6	104.6	21991	21798.73	116.8	21958	21613.23	143.07	21058	20463.07	364.68
	50	rnd	22150	21993.13	86.78	22019	21818.6	118.39	21983	21713.3	135.25	21172	20589.2	358.59
		2op	22121	21993.07	65.79	22023	21836.77	89.64	21942	21682.17	117.77	21557	20948.73	337.45
		2op	22139	22034.87	57.47	22114	21907.9	109.16	22029	21825.87	98.95	21606	21085.9	229.51

Table A.1783: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	20267	19943.53	159.97	19402	18804.97	363.36	16174	15000.67	573.66	13567	12774.67	383.28
		2op	20310	19967.97	145.56	19305	18816.73	320.35	15874	14921.07	426.68	13350	12763.5	305.06
	50	rnd	20327	20010.6	147.76	19584	19289.7	216.98	17137	16320.4	450.51	13490	12957.13	289.39
51	20	rnd	20364	20011.07	147.09	19735	19288.1	232.68	17163	16378.53	424.72	13564	12969.9	309.88
		2op	20564	20238.73	158.72	20377	20042.9	194.12	18776	18174.13	322.98	15830	14805.57	420.7
	50	rnd	20503	20216.2	147.43	20250	19933.07	138.09	18740	18136.97	393.52	15756	14853.37	439.41
		2op	20536	20221.37	159.17	20454	20094.03	173.09	19553	19061.67	336.49	16197	15503.6	522.77
		2op	20585	20236.97	159.17	20315	20137	111.18	19441	19082.7	321.45	16422	15649.57	432.71

Table A.1784: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22060	21899.37	96.63	21899	21660.17	144.85	21352	20845.73	274.63	19108	18414.03	405.46
		2op	22068	21960.27	76.11	21896	21683.77	131.19	21495	20908.4	289.63	19287	18331.37	468.87
	50	rnd	22075	21935.37	65.49	21931	21695.4	130.45	21581	21277.43	258.88	20130	19445	351.71
51	20	2op	22114	21966.3	81.23	22005	21803.07	129.83	21640	21317.73	200.4	20009	19325.07	415.63
		rnd	22063	21940.03	71.34	22016	21776.87	120.76	21819	21530.07	129.12	20919	20546	227.13
	50	2op	22141	21961.67	89.41	22073	21859.17	111.52	21954	21620.47	168.84	21288	20508.7	341.84
	20	rnd	22085	21982.5	60.16	22068	21855.97	77.79	21984	21718.63	119.18	21483	20981	222.09
		2op	22172	22028.57	69.63	22065	21914.87	90.66	21966	21792.27	110.48	21397	20965.13	238.15

Table A.1785: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	20632	20357.17	160.73	20648	20242.83	176.66	17043	16145.77	499.13	13541	12793.2	359.88
		2op	20530	20361.83	103.19	20476	20228.73	149.86	17101	16186.33	469.81	13540	12821.23	259.91
	50	rnd	20454	20206.7	123.7	20308	20081.8	138.51	17741	16719.4	476.73	13274	12913.23	219.55
51	20	2op	20484	20184.23	149.8	20329	20115.1	140	17478	16767.9	588.78	13697	12895.1	334.85
		rnd	21382	20933.97	180.42	21382	20930.27	179.41	20257	19299.43	422.67	15232	14625.13	312.31
	50	2op	21212	20889.77	155.87	21155	20882.8	171.74	19947	19484.17	311.42	15385	14618.8	348
	20	rnd	20763	20544.83	118.73	20811	20548.97	128.08	19928	19513.2	217.85	15848	15231.5	362.73
		2op	20808	20588.1	119.25	20788	20562.97	134.77	20018	19503.27	297.23	15930	15254.37	328.47

Table A.1786: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22078	21914.03	81.68	21981	21836.9	87.42	21265	20872.3	278	18589	17798.5	387.75
		2op	22079	21984.2	86.71	22115	21901	97.25	21321	20930.67	228.24	18845	17966.3	482.85
	50	rnd	22084	21984.4	53.09	22052	21902.17	77.97	21621	21319.3	147.06	19875	19167.73	340.05
51	20	2op	22154	22045.17	65.98	22102	21983.53	73.95	21801	21452.3	155.23	19740	19153.03	399.42
		rnd	22079	21960.5	76.73	22073	21936.87	68.63	21907	21653.33	126.55	20615	19602.83	370.85
	50	2op	22110	22009.83	67.95	22122	21990.2	63.28	21856	21726.5	91.85	20643	19565.27	446.28
	20	rnd	22080	21999.97	64.16	22072	21963.03	60.71	21911	21751	99.83	20951	20116	494.78
		2op	22152	22079.57	40.92	22128	22027.47	52.56	22002	21821.63	95.53	20963	20217.43	460.84

Table A.1787: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22398	22134.77	142.02	21173	20590.67	291.92	17043	16168.97	545.35	14862	14004.2	300.56
		2op	22439	22148.27	131.97	21464	20679.57	315.12	17544	16519.73	479.24	14567	14100.63	285.3
	50	rnd	22487	22188.33	176.65	21712	21253.63	229.45	19003	17949.27	533.44	14919	14285.77	309.57
51	20	rnd	22622	22200.7	174.52	21945	21271.57	325.59	19184	18007.03	583.35	14867	14364.23	297.89
		2op	22777	22483.83	190.76	22663	22141.8	194.65	20641	19926.37	420.91	16940	16254.07	313.67
	50	rnd	22646	22442.17	106.44	22468	22130.9	158.02	20581	19869.53	393.24	16880	16269.53	319.06
	20	rnd	22856	22468.27	151.93	22568	22241.83	185.72	21755	20896.6	365.03	17722	16968.47	344.95
		2op	22877	22499.67	156.15	22576	22328.37	144.81	21296	20842.33	354.4	18197	17044.97	466.84

Table A.1788: f_{737_355} : basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24614	24406.7	102.36	24428	24100.6	148.72	23641	23205.4	274.9	21488	20365.57	497.78
		2op	24694	24474.7	116.4	24410	24133.37	129.76	23720	23223.17	227.27	21487	20134.77	589.76
	50	rnd	24656	24484.57	93.28	24476	24256.6	131.97	24230	23868.23	210.79	22482	21668.27	597.83
51	20	rnd	24629	24514.37	71.04	24523	24340.03	123.57	24196	23764.87	262.98	22478	21639	486.64
		2op	24591	24433.3	89.23	24531	24299.43	128.65	24339	24085	155.16	23139	22665.13	270.59
	50	rnd	24698	24499.17	100.29	24566	24290.13	163.52	24336	24054.13	184.59	23330	22745.03	371.85
	20	rnd	24671	24516.7	90.55	24573	24401.43	108.23	24422	24198.5	112.44	23740	23199.6	337.61
		2op	24689	24548.13	75.76	24593	24402.5	111.47	24491	24248.93	153.95	23731	23334.17	245.55

Table A.1789: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22405	22156.57	143.32	21180	20596.53	315.21	17782	16541.47	510.6	14531	13865.37	252.89
		2op	22473	22136.87	139.34	21411	20491.97	364.65	17229	16458.7	396.42	14333	13949.13	210.7
	50	rnd	22528	22147.1	130.25	21709	21174.03	339.83	18724	17844.57	618.57	15192	14314.1	383.17
51	20	rnd	22389	22157.5	121.98	21822	21269.2	235	18647	17757.3	507.75	14834	14202.3	300.24
		2op	22862	22416.83	179.22	22552	22112.7	214.31	20354	19898	353.39	16848	16329.83	380.1
	50	rnd	22781	22467.67	157.74	22422	22123.8	152.57	20560	19759.03	456.38	16824	16107.23	421.65
	20	rnd	22794	22501.13	174.16	22832	22321.8	182.64	21435	20827.03	484.98	17636	16913.83	433.86
		2op	22745	22484.07	142.83	22563	22263.7	187.15	21683	20919.33	379.96	18099	17115.97	460.78

Table A.1790: f_{737_355} : basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24646	24437.37	106.54	24368	24052.2	187.33	23547	23174.73	254.09	21118	20295.53	410.14
		2op	24648	24426.03	114.83	24439	24152.1	177.74	23762	23183.57	252.57	21073	20316.47	460.41
	50	rnd	24601	24491.33	63.77	24469	24266.13	123.61	24104	23694	219.92	22296	21515.93	337.15
51	20	rnd	24620	24488.23	86.66	24504	24288.77	118.64	24043	23685.33	266.14	22446	21564	436.06
		2op	24614	24434.73	121.85	24491	24304.8	102.83	24399	24016.23	228.92	23349	22666.03	321.74
	50	rnd	24647	24448.93	72.73	24506	24318.97	105.4	24329	24064.37	148.47	23247	22744.8	330.24
	20	rnd	24656	24522.07	83.46	24595	24389.73	129.55	24469	24208.67	126.46	23814	23223.93	266.88
		2op	24650	24564.93	68.94	24618	24400.07	78.86	24428	24198.63	153.34	23723	23325.33	270.26

Table A.1791: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22846	22511.57	138.1	22776	22412.83	183.93	18868	17628.63	627.57	14873	14122.9	274.56
		2op	22736	22548.83	116.37	22610	22357.4	126.88	18857	17604.8	433.95	14902	14100.67	358.7
	50	rnd	22721	22358.27	123.39	22564	22273.3	142.73	19584	18297.53	493.21	15122	14146.63	317.05
51	20	rnd	22568	22338.4	112.27	22547	22281.33	121.56	18956	18088.03	625.72	14635	14202.57	249.07
		2op	23654	23049.1	185.65	23654	23049.1	185.65	21592	21115.5	351.09	16731	16072.1	366.44
	50	rnd	23399	23036.7	169.74	23399	23036.7	169.74	21796	21044.27	501.45	16779	16074.1	399.16
	20	rnd	23080	22739.83	144.48	23080	22739.83	144.48	22120	21295.2	356.38	17534	16894.7	378.74
		2op	23003	22768.47	152.71	23003	22768.37	152.78	21759	21300.7	331.3	17537	16892.83	349.34

Table A.1792: f_{737_355} : basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24588	24457.87	76.46	24602	24346.47	123.85	23609	23150.87	296.44	20281	19546.7	473.08
		2op	24611	24457.67	90.52	24577	24385.53	97.85	23505	23176.13	240.35	20627	19621.97	472.06
	50	rnd	24620	24529.77	72.69	24670	24437.2	90.46	24175	23656.73	213.18	22015	21112.97	367.91
51	20	rnd	24691	24566.93	63.49	24633	24441.9	103.99	24106	23683.03	290.12	21759	21070.03	445.18
		2op	24686	24512.23	80.38	24649	24472.87	113.13	24344	24095.27	161.09	22651	21528.13	525.51
	50	rnd	24642	24495.17	74.69	24604	24486.37	88.46	24388	24122.37	133.23	22496	21635.83	507.15
	20	rnd	24700	24561.27	68.26	24636	24521.87	65	24420	24224.9	111.47	23290	22262.4	673.59
		2op	24751	24611.5	52.39	24684	24527.7	87.87	24431	24300	97.15	23280	22266	645.92

Table A.1793: f_{737_355} : transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	42176	41705.17	217.59	39882	37796.87	904.93	30833	29719.87	694.07	27570	26821.07	366.14
		2op	42185	41754.13	212.92	39060	37828.77	825.09	31007	29683.13	561.74	27838	26848.17	395.4
	50	rnd	42910	42433.9	219.68	40781	39828.97	590.12	32796	31457.8	618.82	27838	26999.53	385
51	20	rnd	42885	42440.67	213.99	40685	39816.97	746.54	33383	31971.9	930.51	28223	27124.13	440.52
		2op	42679	42240.6	226.22	42430	41760.63	398.49	37171	35439	1115.44	30873	29899.8	542.86
	50	rnd	42816	42271.63	227.85	42653	41780.63	431.71	37145	35642.3	1000.69	30832	29915.87	559.2
	20	rnd	43541	42924.67	272.15	43080	42438.2	300.1	39783	38217.07	851.32	32133	31004.3	598.54
		2op	43423	42986.5	183.42	42845	42398.03	244.35	39902	38454.9	693.12	31872	30751.13	533.55

Table A.1794: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47539	47310.5	163.47	47096	46846.6	207.37	46137	44836.3	589.12	40752	39131.9	860.97
		2op	47541	47331.47	155.75	47326	46816.83	307.65	46182	45087.6	480.88	41309	39169.9	1118.93
	50	rnd	47804	47494.2	142.39	47504	47143.33	185.59	46427	46060	266.62	43574	41479.27	1106.36
51	20	rnd	47774	47529.83	135.8	47485	47175.77	173.76	46814	46208.3	323.69	43491	42051.4	890.27
		2op	47625	47322.37	154.29	47613	47186.6	179.54	47121	46661.3	208.07	45088	43735.1	597.53
	50	rnd	47832	47419.77	145.92	47549	47249.57	171.31	47109	46681.27	262.31	44863	44016.87	503.29
	20	rnd	47837	47533.17	121.86	47651	47320.83	148.43	47309	46959.23	228.59	45854	45060.37	442.43
		2op	47801	47573.43	90.64	47684	47400.37	145.38	47497	47107.5	208.07	46108	45053.5	562.65

Table A.1795: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	42091	41619.57	234.4	38922	37897.83	653.52	30743	29332.7	544.12	27527	26579.17	382.04
		2op	42153	41719.33	250.51	39457	37753.57	747.23	30979	29637.23	612.28	27400	26729.6	457.29
	50	rnd	42775	42269.07	206.78	41121	39566.67	621.54	32785	31390.03	845.71	28055	26729.83	434.83
51	20	rnd	42672	42262.23	177.42	40653	39685.03	593.2	32957	31341.03	945.38	27535	26968.87	312.83
		2op	42737	42253.63	225.51	42282	41579.2	389.23	37374	35570.6	790.39	30755	29760.97	518.32
	50	rnd	42602	42244.17	213.45	42821	41867.97	418.41	36590	35377.27	812.05	30796	29740.97	553.97
	20	rnd	43371	42935.33	235.01	43024	42394.03	306.79	39691	38011.17	954.75	32493	30714.37	499.7
		2op	43224	42870.13	178.18	42939	42443.97	245.53	39828	38270.43	605.55	32335	30911.43	604.79

Table A.1796: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47601	47309.87	149.32	47200	46823.43	238.16	45765	44778.1	568.55	40521	39020.23	967.21
		2op	47683	47328.07	157.29	47303	46860.07	230.29	45801	44886.9	639.24	39990	38676.1	893.56
	50	rnd	47855	47442.4	171.03	47684	47065.73	256.81	46878	45856.97	375.13	42808	41384.97	843.29
51	20	rnd	47801	47490.13	114.04	47403	47136.8	159.02	46576	46031.47	324.55	42651	41392.23	851.65
		2op	47680	47370	172.42	47569	47151.93	201.77	47076	46631.37	264.75	45294	43782.7	700.53
	50	rnd	47695	47412.8	182.78	47598	47256.1	175.06	47110	46712.9	273.18	45018	44053.87	658.85
	20	rnd	47975	47518	155.35	47576	47267.37	192.67	47305	47034.13	157.1	45729	44852.77	561.71
		2op	47801	47607.23	119.21	47735	47368.23	177.13	47444	47011.17	169.5	45848	45096.53	503.02

Table A.1797: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	42671	42064.63	201.31	42671	42064.63	201.31	33487	32085.3	652.2	27597	26671.93	355.89
		2op	42492	42172.13	171.63	42492	42172.13	171.63	33649	31769.07	1196.31	27707	26840.4	488.56
	50	rnd	42637	42300.93	208.71	42637	42300.93	208.71	35269	32280.43	1318.55	28113	26929.3	526.54
51	20	rnd	42829	42355.57	211.06	42829	42355.57	211.06	34655	32607.07	977.08	28045	26926.93	424.93
		2op	43418	42823	218.06	43418	42823	218.06	39818	38180.57	800.09	31373	29949.67	695.85
	50	rnd	43403	42886.1	231.9	43403	42886.1	231.9	39754	38307.9	730.99	31124	29713.07	587.04
	20	rnd	42868	42257.07	280.39	42868	42257.07	280.39	41320	39641.53	601.16	31906	30954.6	578.07
		2op	42943	42364.13	239.21	42943	42364.13	239.21	40826	39777.87	745.48	32457	30932.07	688.03

Table A.1798: f_{1343_354} : basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47589	47333.73	148.34	47398	47240.17	124.66	45590	44779.5	344.38	39790	38298.43	630.99
		2op	47737	47419.93	153.78	47564	47293.07	143.3	45850	44878.03	416.69	39532	37881.97	822.85
	50	rnd	47765	47558.43	103.44	47777	47364.67	161.09	46566	45922	401.65	42474	40949.37	629.83
51	20	rnd	47740	47582.5	88.29	47580	47343	136.36	46735	46002.97	336.15	42160	40988.6	589.15
		2op	47679	47445.23	129.36	47678	47415.57	141.56	47224	46729.73	269.54	42760	39787.17	1313.83
	50	rnd	47774	47537.2	131.54	47827	47492.97	144.23	47242	46817.63	232.13	43046	40001.17	1252.59
	20	rnd	47828	47610.93	131.8	47737	47507.3	111.5	47433	47101.87	193.97	44915	41617.03	1696.12
		2op	47845	47663.9	100.55	47766	47583.77	102.58	47506	47086.2	158.26	45031	41587.03	1817.29

Table A.1799: f_{1343_354} : transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48580	48126.63	245.32	45052	43521.4	931.66	35355	34172.3	663.26	31914	31052.8	410.94
		2op	48806	48158.7	303.51	45014	43120.5	1063.58	35928	34462	633.21	31975	31207.9	417.66
	50	rnd	49835	49251.1	226.65	47130	46090.07	639.34	39244	36642.93	1056.91	32133	31352.8	410.52
51	20	rnd	49206	48635.43	243.81	49113	48414.53	393.09	43143	40781.97	1127.79	35641	34504.7	479.68
		2op	49238	48818.3	237.52	49176	48531.07	481.94	42536	40618.27	1009.1	35324	34493.57	458.72
	50	rnd	50267	49830.6	215.38	49998	49391.57	361.48	45232	43916.17	849.96	36765	35571.03	583.33
		2op	50361	49859.73	258.75	49991	49429.93	342.47	45482	44009.4	1048.61	37291	35685.47	717.39

Table A.1800: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55579	55218.37	184.11	55144	54744.1	194.51	53441	52525.4	573.48	46964	45583	831.84
		2op	55604	55303.27	152.7	55372	54754.53	283.06	53596	52452.17	463.76	46770	45231.77	995.68
	50	rnd	55697	55448.77	175.4	55292	55037.3	180.13	54608	53927.2	343.96	50194	48587.87	888.97
51	20	rnd	55760	55439.7	181.27	55502	55085	215.48	54676	53983.73	416.68	50217	49177.37	751.49
		2op	55565	55310.43	173.35	55656	55155.3	224.69	55062	54478.47	327.35	52644	51349.53	545.43
	50	rnd	55759	55351.37	203.88	55454	55085.47	210.58	55032	54596.7	227.45	52272	51193	739.41
		2op	55764	55527.27	125.32	55708	55307.83	161	55318	54930.27	239.7	53630	52772.9	501.58
			55866	55513.07	139.07	55571	55302.23	139.09	55422	54965.3	227.8	53661	52643.9	671.25

Table A.1801: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48492	48060.33	250.11	44580	43497.43	691.25	35114	33933.5	584.37	31707	31012.57	363.47
		2op	48304	47996.2	196.97	44819	43516.57	725.94	35541	34193.9	630.29	31929	30862.8	405.33
	50	rnd	49409	49045.17	166.71	46673	45733.33	704.66	37633	36018.87	835.31	32272	31303.67	449.56
51	20	rnd	49713	49120.87	253.41	47023	45757.43	787.1	38292	36301.87	872.77	32270	31120.07	395.35
		2op	49117	48678.4	250.98	48925	48298.93	385.97	42302	40746.93	870.75	35293	34344.47	445.74
	50	rnd	49176	48716.7	259.57	49157	48398.07	482.17	42939	41172	968.3	35178	34400.9	486.58
		2op	50295	49760.6	277.25	50040	49262.83	377.24	45419	44296.9	806.76	36963	35574.63	621.12
			50323	49848.03	227.67	50217	49414.67	401.17	45342	44047.3	947.49	36813	35614.1	717.33

Table A.1802: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55723	55223.47	230.26	55174	54750.9	231.37	53471	52300.23	622.6	46851	45150.4	1168.81
		2op	55607	55301.23	143.12	55264	54799.13	193.02	53152	52336.77	507.54	47089	45298.9	948.68
	50	rnd	55745	55437.7	170.93	55381	54916.7	234.39	54127	53500.4	447.63	49760	48508.57	786.63
51	20	rnd	55704	55407.5	170.51	55656	55031.5	217.24	54428	53729.13	370.15	49617	48484.67	758.64
		2op	55736	55335.17	208.82	55458	55020.63	229.25	55043	54443.47	319.33	52112	51344.13	432.92
	50	rnd	55825	55415.87	185.46	55474	55096.97	225.4	54939	54548.33	269.35	52603	51408.6	756.57
	20	rnd	55780	55572.9	131.42	55410	55231.87	139.66	55374	54929.73	259.38	53554	52376.37	575.36
		2op	55816	55557.83	159.44	55597	55299.43	200.22	55450	54969.33	247.43	53673	52613.37	698.89

Table A.1803: f_{1577_354} : transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48803	48355.33	213.82	48803	48355.33	213.82	38728	36993.57	757.97	31893	31245.13	421.06
		2op	48696	48357.3	198.26	48696	48357.3	198.26	38099	36953.43	609.56	32135	31264.87	458.02
	50	rnd	49259	48686.13	235.06	49259	48686.13	235.06	39575	37101.37	1483.22	31985	31189.2	370.68
51	20	rnd	49043	48724.27	208.76	49043	48724.27	208.76	39696	37542.53	1087.94	32466	31329	555.45
		2op	49747	49150.2	215.52	49747	49150.2	215.52	45683	44076.6	957.17	36209	34656.17	748.35
	50	rnd	49961	49247.37	301.7	49961	49247.37	301.7	45465	44152.87	841.55	36235	34441.4	832.18
	20	rnd	48949	48440.23	223.04	48949	48440.23	223.04	46729	45570.57	758.34	36661	35736.37	407.47
		2op	49188	48664.6	282.8	49188	48664.6	282.8	47209	45851	913.36	37210	35694.9	798.64

Table A.1804: f_{1577_354} : basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55665	55336.03	183.25	55544	55156.33	222.89	53280	52561.43	428.23	46264	44427.63	876.78
		2op	55588	55322.87	145.91	55485	55191.57	139.78	53247	52396	527.59	45843	44267.7	677.71
	50	rnd	55757	55497.27	147.07	55705	55323.37	204.23	54470	53546.3	460.29	49170	47826.1	815.9
51	20	rnd	55836	55562.87	148.33	55712	55393.3	185.09	54395	53730.87	443.7	49137	48093.9	764.42
		2op	55615	55376.07	174.38	55614	55344.3	195.51	55078	54564.9	270.21	50133	45791.13	1577.54
	50	rnd	55577	55400.13	136.41	55811	55377.03	166.68	55153	54673.43	295.43	50637	45995.23	1576.3
	20	rnd	55823	55575.73	131.48	55849	55491.47	136.7	55335	54962.03	194.15	52059	47703.3	1923.03
		2op	55838	55585.03	120.21	55788	55561	121.36	55490	54945.27	234.66	52721	48049.47	1888.35

Table A.1805: f_{1577_354} : transRRGA+IM – Suspected Optimal is 57373

Results With No Post Optimization and Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47286	47054.33	124.55	47270	47048.3	111.16	47274	47274	0	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	47238	47043	117.89	47269	47055.97	111.47	47274	47272.03	10.77	47274	47274	0
51	20	rnd	47333	47143.93	103.26	47339	47150.37	103.67	47392	47139.23	123.14	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	47262	47118.77	97.81	47278	47119.33	113.72	47356	47144.17	126.42	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0

Table A.1806: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47380	47258.03	64.55	47343	47218.9	61.62	47394	47211.87	80.39	47344	47225.17	77.3
		2op	47382	47314.07	34.11	47359	47280.23	21.13	47274	47274	0	47274	47274	0
	50	rnd	47382	47274.3	69.99	47443	47314.23	68.07	47336	47213.43	76.41	47321	47177.3	66.83
51	20	rnd	47432	47345.03	35.44	47369	47313.93	36.31	47325	47275.7	9.31	47274	47274	0
		2op	47367	47267.07	67.89	47458	47345.7	54.14	47338	47211.03	64.15	47341	47208.73	87.12
	50	rnd	47398	47328.23	38.4	47412	47344.67	40.63	47365	47279.37	20.61	47274	47274	0
		2op	47396	47276.63	62.28	47444	47366.63	55.21	47386	47261.57	74.87	47359	47243.27	86.58
		2op	47401	47333.93	31.58	47437	47379.37	25.37	47344	47276.33	12.78	47274	47274	0

Table A.1807: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47270	47088.13	102.88	47284	47078.87	131.36	47274	47274	0	47274	47274	0
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
	50	rnd	47354	47059.07	131.45	47271	47086.77	126.83	47274	47253.6	67.1	47274	47274	0
51	20	rnd	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
		2op	47332	47124.53	85.24	47332	47125.33	87.53	47292	47149.57	78.18	47274	47274	0
	50	rnd	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
		2op	47278	47089.7	112.54	47286	47099.7	111.08	47358	47115.27	124.75	47274	47271.8	12.05
		2op	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0

Table A.1808: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47359	47246.37	69.21	47347	47248.17	66.1	47365	47205.9	76.91	47429	47206.93	96.41
		2op	47413	47331.4	40.2	47360	47283.57	22.98	47274	47274	0	47274	47274	0
	50	rnd	47448	47258.33	58.15	47434	47298.4	76.63	47345	47176.87	89.41	47310	47174.8	86.64
51	20	rnd	47398	47345.8	30.02	47398	47319.27	41.07	47274	47274	0	47274	47274	0
		2op	47360	47280.37	64.52	47421	47340.7	47.36	47340	47205.4	71.64	47356	47180.4	112.18
	50	rnd	47396	47312.2	38.6	47431	47352.6	38.95	47357	47276.77	15.15	47274	47274	0
	20	rnd	47415	47284.2	62.5	47419	47368.47	38.27	47402	47266.67	69.19	47409	47242	77.51
		2op	47410	47335.17	40.82	47467	47391.1	26.6	47359	47283.93	22.75	47274	47274	0

Table A.1809: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47303	47125.57	96.27	47310	47121.5	96.85	47274	47265.97	44	47274	47274	0
		2op	47348	47276.47	13.51	47348	47276.47	13.51	47274	47274	0	47274	47274	0
	50	rnd	47369	47181.3	109.36	47369	47180.73	106.9	47274	47252.83	55.15	47274	47274	0
51	20	rnd	47274	47274	0	47274	47274	0	47274	47274	0	47274	47274	0
		2op	47360	47257.47	65.9	47384	47258.37	67.92	47419	47229.07	92.89	47274	47274	0
	50	rnd	47378	47308.3	37.32	47378	47308.3	37.32	47274	47274	0	47274	47274	0
	20	rnd	47438	47296.57	68.82	47420	47297.53	64.18	47367	47186.63	76.51	47274	47274	0
		2op	47436	47310.7	50.32	47436	47310.07	50.36	47274	47274	0	47274	47274	0

Table A.1810: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47345	47258.6	53.38	47355	47244.57	55.09	47354	47209.63	74.77	47362	47197.83	71.68
		2op	47429	47342.57	36.93	47403	47308.57	39.41	47274	47274	0	47274	47274	0
	50	rnd	47393	47288.57	51.83	47383	47269.37	56.34	47328	47223.47	65.37	47330	47211.03	88.71
51	20	rnd	47433	47350.87	34.15	47401	47325.33	38.03	47274	47274	0	47274	47274	0
		2op	47407	47277.17	64.38	47447	47287.3	73.33	47320	47200.27	59.56	47399	47213.5	87.51
	50	rnd	47388	47344.97	25.92	47388	47345.5	27.15	47313	47275.3	7.12	47274	47274	0
	20	rnd	47386	47317.87	37.65	47406	47294.33	66.56	47416	47250.8	73.46	47304	47183.93	91.43
		2op	47404	47360.27	19.76	47440	47325.57	39.86	47290	47274.53	2.92	47274	47274	0

Table A.1811: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151224	150900.67	352	151256	151153.53	19.35	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151210	150940.8	284.93	151249	151037.9	283.29	151150	151150	0	151150	151150	0
51	20	rnd	151244	150961.13	315.84	151249	150890.43	369.07	151150	151147.2	15.34	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151254	151059.1	231.88	151295	151061.53	238.86	151227	151117.5	117.12	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1812: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151322	151152.63	125.35	151271	151147.33	116.02	151231	151110.33	160.91	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151254	151169.1	51.02	151291	151166.2	60.73	151255	151124.43	146.59	151171	151150.7	3.83
51	20	rnd	151279	151120.77	125.61	151216	151149.03	53.11	151291	151149.17	112.13	151228	151151.3	21.59
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151249	151138.93	45.97	151229	151160.2	48.91	151279	151161.67	53.54	151215	151086.2	177.9
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1813: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151275	151065.8	202.88	151245	151128.6	108.42	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151220	150989.1	280.14	151267	151039.07	309.08	151150	151150	0	151150	151150	0
51	20	rnd	151280	151023.7	289.64	151306	151071	235.96	151170	151129.17	117.94	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151233	151026.97	219.88	151237	151033.77	277.53	151172	151046.43	256.19	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1814: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151288	151139.57	118.36	151260	151139.43	113.88	151220	151145.6	28.64	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151272	151151.3	47.2	151237	151156.8	51.07	151226	151121.77	149.72	151150	151149.8	1.1
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151262	151142.3	117.27	151293	151153.13	64.68	151229	151087.33	184.83	151259	151153	34.39
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151236	151140.43	47.58	151249	151160.63	43.71	151273	151173.67	47.23	151223	151125.5	110.01
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1815: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151265	151105.13	188.01	151255	151095.3	202.53	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151266	151068.93	288.32	151227	150968.7	306.24	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151290	151109.23	210.85	151290	151112.23	210.97	151249	151105.17	170.81	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151228	151081.07	207.51	151235	151076.93	207.62	151266	151093.37	218.88	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1816: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151241	151159.63	44.85	151263	151159.03	49.54	151228	151133.9	107.77	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151266	151165.7	46.99	151217	151126.1	104.71	151297	151119.27	178.83	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151240	151146.23	49.16	151245	151157.07	45.82	151256	151169.07	57.18	151150	151149.27	4.02
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151299	151167.47	51.98	151259	151159.23	58.32	151222	151151.7	43.52	151295	151147.47	38.1
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.1817: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167083	166465.67	294.78	166879	166513.23	271.97	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166980	166376	300.81	166903	166410.9	325.13	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167096	166520.43	344.98	166930	166509.13	287.68	166880	166536.73	153.41	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166921	166497.47	320.52	166768	166518.6	227.41	166911	166501.33	291.39	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1818: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167325	166955.17	205.51	167284	166868.83	248.66	167320	166836.37	259.86	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167309	166972	168.51	167416	167042.27	237.21	167304	166918.57	180.5	167256	166586.87	187.24
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167332	166960.43	228.42	167331	167031.3	182.67	167335	166817.03	263.63	167127	166653.47	228.62
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167363	166965.77	172.33	167351	167124.5	175.11	167282	166869.1	247.93	167235	166857.63	212.57
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1819: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166930	166544.23	300.66	166749	166470.63	256.37	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166976	166466.13	344.2	166876	166408	317.92	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	166952	166532.33	267.19	166967	166482.87	267.92	166751	166491.67	152.46	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166964	166578.67	336.85	167015	166527.3	314.2	166894	166541.67	217.32	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1820: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167387	166917.97	218.43	167216	166874.57	199.53	167287	166731.03	229.52	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167403	166940.03	232.47	167337	166942.97	216.17	167350	166823.83	198.99	167018	166578.4	143.63
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167395	166992.37	185.38	167318	167002.63	203.72	167292	166878.47	208.76	167126	166740	227.78
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167314	166955.27	193.81	167404	167183.33	141.43	167284	166907.6	217.01	167156	166867.97	194.35
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1821: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166934	166528.37	295.43	166921	166517.4	318.91	166773	166526.6	49.18	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167029	166545.23	326.64	166862	166544.97	217.39	166929	166544.03	81.85	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167068	166723.37	199.72	167124	166727.47	199.16	167149	166739.63	193.94	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167016	166713.73	187.05	167016	166715.1	187.35	166922	166696.03	179.51	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1822: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167318	167006.8	203.65	167301	166973.4	193.54	167368	166960.43	219.45	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167360	167025	183.2	167395	167012.03	227	167321	166876.83	170.75	166815	166529.83	53.86
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167330	167008.57	155.69	167315	167009.43	169.14	167234	166925.63	200.5	166974	166549.3	111.57
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167373	167032.73	199.07	167413	167015.2	192.34	167363	166940.4	227.5	167245	166841.43	222.73
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.1823: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163097	162964.47	81.77	163080	162929.63	89.01	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		50	163171	162939.33	118.26	163114	162934.1	84.08	163089	162980.57	50.75	162988	162988	0
51	20	rnd	163106	162983.1	75.81	163120	162955.2	111.5	163086	162917.43	101.17	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		50	163129	162970.5	111.37	163141	162953.2	108.07	163177	162928.1	105.23	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.1824: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163162	162964	82.69	163168	162983	90.22	163195	162993.23	89.87	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		50	163191	162980.97	85.15	163085	162956.7	69.52	163112	162984.5	79.44	163118	162973.13	71.26
51	20	rnd	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		50	163151	162984.43	88.72	163150	163015.8	69.48	163093	162972.6	73.01	163182	162988.37	71.15
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163078	162971.73	65.78	163073	162981.23	66.59	163126	162949.43	92.28	163120	162980.43	70.72
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		50	163124	162945.23	109.16	163167	162943.3	86.03	163075	162940.57	108.62	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.1825: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163070	162932.63	94.57	163100	162920.9	117.33	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		50	163067	162925.13	113.67	163068	162937.23	102.08	163082	162960.2	81.58	162988	162988	0
51	20	rnd	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		50	163120	162971.23	65.97	163085	162952.1	71.66	163092	162950.57	71.54	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163124	162945.23	109.16	163167	162943.3	86.03	163075	162940.57	108.62	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		50	163124	162945.23	109.16	163167	162943.3	86.03	163075	162940.57	108.62	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.1826: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163148	162965.5	68.67	163119	162971.9	75.51	163068	162973.47	45.34	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163098	162965.7	64.09	163095	162948	70.81	163100	162993.53	71.77	163083	162990.17	29.74
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163099	162990.73	76.52	163182	162995.73	73.74	163133	162968.67	70.55	163083	162969.97	56.31
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163155	162973.47	112.53	163103	162966.57	94.87	163093	162941.97	80.95	163116	162976.83	80.34
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.1827: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163047	162938.13	99.39	163116	162950.73	91.84	163056	162912.03	86.1	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163075	162970.9	64.49	163101	162944.57	78.29	163081	162948.13	78.24	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163043	162914.07	85.06	163043	162914.07	85.06	163047	162929.43	100.07	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163150	162967.63	89	163150	162967.63	89	163144	162920.8	93.27	162995	162986.37	10.35
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.1828: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163134	162978.3	80.52	163117	162984.67	79.61	163118	162947.5	78.29	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163124	162973.1	87.98	163093	162997.8	56.61	163144	162984.17	77.96	163065	162961.67	114.09
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163161	162984.13	75.67	163133	162975.77	66.1	163154	162991.3	82.11	163104	162981.7	36.81
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163118	162985.87	71.3	163108	162979.93	91.08	163143	162997.37	64.08	163177	162976.97	111.1
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.1829: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179812	179677.5	88.01	179815	179690.97	76.49	179607	179607	0	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179878	179699.8	92.46	179860	179671.17	101.55	179839	179625.2	78.25	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179922	179737.67	99.98	179841	179684.13	97.48	179856	179686.1	79.61	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179874	179707.1	86.07	179970	179709.27	120.48	179901	179686.87	90.38	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.1830: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179884	179702.27	91.18	179868	179681.67	88.27	179865	179629.23	78.58	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179973	179737.87	97.25	179892	179717.17	94.65	179862	179682.43	102.86	179822	179620.43	44.13
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179881	179721.77	85.33	179893	179678.23	111.08	179921	179699.43	100.01	179866	179653	86.12
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179846	179703.67	74.2	179961	179702.6	121.55	179869	179711.2	73.49	179975	179703.97	96.23
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.1831: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179843	179698.07	83.7	179907	179688.4	91.56	179607	179607	0	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179870	179732.7	74.4	179892	179698.73	85	179872	179655.6	71.1	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179927	179724.2	85.27	179900	179686.1	111.9	179888	179681.8	86.82	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179833	179681.07	92.49	179848	179702.13	84.07	179920	179682.33	85.62	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.1832: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179865	179702.3	101.36	179891	179687.47	96.02	179937	179673.83	102.83	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179885	179702.5	87.81	179920	179702.07	87.97	179898	179707.27	87.84	179734	179615.7	53.58
	2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0	
51	20	rnd	179913	179738.73	87.62	179952	179730.4	92.83	180023	179712.1	102.42	179785	179645.03	55.96
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179949	179706.1	104.97	179836	179674.03	89.98	179931	179711.4	82.88	179932	179705.83	98.77
	2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0	

Table A.1833: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179816	179685.17	86.78	179882	179677.47	89.57	179828	179676.57	87.56	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179901	179693.7	103.67	179958	179710.83	110.59	179872	179665.33	94.3	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179879	179695.03	85.52	179879	179695.03	85.52	179858	179678.13	98.57	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179916	179710.17	93.31	179916	179710.17	93.31	179827	179686.13	90.2	179642	179609.13	8.16
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.1834: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179831	179719	80.84	179996	179707.37	90.83	179910	179710.17	85.27	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179854	179739.67	62.47	179911	179696.83	124.46	179854	179703.67	89.17	179759	179612.07	27.75
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179843	179709.4	89.13	179841	179686.77	81.47	179959	179708.97	82.57	179733	179613.83	26.73
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179845	179687.6	85.28	179877	179694.7	102.34	179952	179712.87	103.4	179879	179657.97	76.54
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.1835: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343090	342627.93	408.14	342763	342763	0	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343130	342584.93	446.18	342835	342694.9	241.36	342763	342763	0	342763	342763	0
51	20	rnd	343107	342631.63	402.65	343032	342629.67	374.91	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342996	342643.97	288.44	343092	342626.77	384.89	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1836: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343123	342867.97	134.26	343158	342851.93	215.75	343012	342805.37	114.07	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343171	342878.6	134.05	343131	342833.07	243.58	343099	342755.8	290.48	342763	342763	0
51	20	rnd	343011	342846	122.13	343203	342882.63	168.5	343022	342814.7	173.26	342915	342771.93	34.32
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343120	342896.7	96.94	343118	342872.3	137.17	343084	342881.3	179.5	343110	342726.5	234.13
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1837: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343093	342585.37	392.07	342763	342763	0	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343091	342580.7	393.26	342861	342717.93	190.04	342763	342763	0	342763	342763	0
51	20	rnd	343064	342596.8	428.76	343168	342543.17	452.8	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343111	342806	235.38	343034	342764.27	252.67	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1838: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343109	342870	117.2	343163	342796.17	306.15	343051	342799.57	106.84	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343100	342903.2	107.83	343049	342828.03	216.63	343173	342797.07	225.63	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343049	342871.6	102.32	343156	342873.77	154.27	343126	342818.87	208.11	343007	342786.9	66
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343181	342884.13	133.46	343066	342787.4	276.02	343136	342845.23	256.17	343090	342820	223.44
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1839: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343140	342504.6	458.31	343140	342511.6	464.4	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342994	342546.4	432.62	342994	342524.03	428.31	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343079	342748.17	305.22	343079	342748.17	305.22	343067	342714.33	229.44	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343074	342683	321.63	343074	342683	321.63	343073	342567.6	373.35	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1840: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343125	342898.8	104.66	343129	342886.23	152.23	343091	342732.27	283.51	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343147	342945.97	91.11	343169	342926.93	94.31	343118	342760.43	244.79	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343118	342905	141.81	343092	342881.43	154.54	343208	342836.2	264.59	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343114	342874.8	108.34	343126	342884.17	100.63	343089	342893.83	133.37	342936	342760.27	70.6
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.1841: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226996	225497.37	835.16	226232	225417.97	617.72	226732	225243.57	791.22	226468	225211	738.34
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	227264	225345.53	793.51	226685	225411.77	681.01	226798	225190.73	780.58	227269	225514.2	941.39
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
51	20	rnd	226415	225618.3	500.43	226633	225497.7	739.51	226681	225059.1	878.83	226622	225269.9	790.65
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226770	225514.73	617.17	227096	225392.13	817.39	226665	225187.33	666.87	226606	225125.97	887.35
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0

Table A.1842: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226579	225654.83	664.96	226756	225336.4	896.69	226217	224996.4	643.26	226451	225242.47	790.03
		2op	226596	225920.1	351.73	226713	225738.7	376.68	225517	225517	0	225517	225517	0
	50	rnd	226939	225536.83	705.04	226534	225436.2	696.08	226616	225305.93	666.34	227086	225248.2	898.4
		2op	226888	226008.5	378.2	226891	225937.63	451.59	225517	225517	0	225517	225517	0
51	20	rnd	226991	225365.27	835.09	227045	225688.33	623.15	226649	225205.33	760.43	226476	225048.53	676.18
		2op	226739	225949.93	368.15	226849	226241.17	358.45	226370	225636.17	271.28	225517	225517	0
	50	rnd	227069	225452.07	848.62	227555	226198.33	563.33	226510	225415.2	812.2	226693	225005.33	850.79
		2op	226824	226112.47	453.72	226888	226394.33	226.89	226537	225697.43	323.26	225517	225517	0

Table A.1843: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226800	225637.37	683.45	226883	225426.57	684.01	226884	225486.57	681.11	226456	225038.6	690.35
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226436	225362.17	671.57	226792	225280.23	848.65	226874	225221.33	865.92	226134	225097.23	671.09
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
51	20	rnd	226995	225515.9	767.23	226910	225464.63	742.02	227383	225321.47	647.89	226387	224877.07	969.09
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226858	225455.57	728.53	226335	225388.67	572.2	226785	225252.7	838.63	226633	225154.33	873.97
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0

Table A.1844: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226793	225515.1	694.08	226537	225264.83	841.26	227010	225286.23	869.92	226654	225032	824.1
		2op	226795	226131.27	336.15	226691	225790.2	363	225517	225517	0	225517	225517	0
	50	rnd	227016	225601.1	615.22	226733	225423.97	681.48	227570	225494.2	831.67	226312	224948.63	929.61
51	20	2op	226844	226051.97	332.28	226879	225935.17	403.95	226233	225540.87	130.72	225517	225517	0
		rnd	226863	225564.03	817.17	226812	225758.5	651.14	227135	225136.27	749.4	226609	224999.33	851.49
	50	2op	226660	226098.7	376.7	226711	226201.97	294.97	226840	225565.07	241.63	225517	225517	0
	20	rnd	226903	225503.8	801.58	227362	226101.33	659.96	226733	225399.07	800.88	226723	225197.03	752.23
		2op	226613	225967.07	300.65	226723	226289.63	180.11	226789	225783.9	381.35	225517	225517	0

Table A.1845: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226411	225509.9	611.81	227184	225360.33	701.71	226376	225252.13	637.37	226380	225086.17	767.64
		2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
	50	rnd	226950	225330.77	803.07	226046	225025.4	598.59	226885	225224.7	760.07	226501	225059.43	923.67
51	20	2op	225517	225517	0	225517	225517	0	225517	225517	0	225517	225517	0
		rnd	227217	225642.63	847.37	226851	225600.7	821.85	226836	225393.53	683.59	226772	225165.97	702.34
	50	2op	227080	225890.7	484.62	227080	225890.7	484.62	225517	225517	0	225517	225517	0
	20	rnd	227024	225665.87	769.26	227150	225667.7	825.87	226708	225196.6	763.07	226709	225336.23	651.35
		2op	226586	225680.97	324.57	226586	225680.97	324.57	225517	225517	0	225517	225517	0

Table A.1846: *bx842596_4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226710	225608.03	784.46	226739	225484.93	851.96	226664	225134.2	705.25	226698	224937.13	928.79
		2op	226766	226189.3	340.29	226717	226030.9	382.47	225517	225517	0	225517	225517	0
	50	rnd	226916	225709.57	741.09	227110	225557.1	899.15	226991	225203.4	759.85	226308	225023.83	788.33
51	20	2op	226794	226142.73	341.75	226862	226200.43	303.5	225517	225517	0	225517	225517	0
		rnd	227120	225606.67	867.53	226821	225854	627.38	226759	225357.9	763.01	226480	225165.97	649.12
	50	2op	226899	226226.63	319.5	226887	226286.27	264.99	226671	225716.97	376.51	225517	225517	0
	20	rnd	227384	225916.7	595.02	226651	225640.3	743.02	226547	225183.3	866.82	226531	225310.23	714.46
		2op	226913	226287.1	243.03	226871	226196.03	269.74	226758	225719.23	335.74	225517	225517	0

Table A.1847: *bx842596_4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441145	438926.53	1276.86	440158	438691.07	1047.55	440394	438436.23	1329.59	440646	438355.07	1545.38
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	442381	439450.37	1290.37	440344	438574.67	1034.78	440614	438473.77	1252.12	440874	438311.43	1338.47
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
51	20	rnd	440865	438524.87	1238.74	440406	438849.27	1044.33	440790	438350.3	1011.71	440361	438273.67	1262.72
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	440822	438747.67	1114.99	441795	439248.7	1163.72	440309	438738.37	1125.23	440197	438220.8	1002.45
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0

Table A.1848: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	442164	439265.97	1491.13	441469	438811.43	1301.8	442079	438477.23	1231.64	441312	438675.77	1234.51
		2op	439048	438018.3	538.87	438642	437497	284.6	437398	437398	0	437398	437398	0
	50	rnd	441264	438848	1211.65	440748	438721.5	1220.65	440555	438831.67	1175.19	440145	438339.8	1030.8
		2op	438887	437903.53	474.24	438278	437560.6	288.92	437398	437398	0	437398	437398	0
51	20	rnd	440920	438880.77	1267.65	440807	438528.9	1229.48	440297	438593.13	1278.88	440544	438110.77	1305.49
		2op	439246	437878.73	484.3	438735	437604.47	363.02	437775	437410.57	68.83	437398	437398	0
	50	rnd	441296	438778.17	1213.85	442269	439356.27	1269.81	440917	438792.7	1107.02	441191	438825.5	1259.97
		2op	438970	438079.97	404.04	439889	438000.2	559.8	438297	437455.4	218.67	437398	437398	0

Table A.1849: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441097	438985.7	1086.28	440595	438590.1	1274.51	440863	438490.27	1225.79	440676	438381.8	1197.4
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	440779	438685.47	1240.31	441734	438654.8	1232	440772	438543.47	1177.38	440469	438434.07	989.61
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
51	20	rnd	440729	438986.47	1084.19	441130	438775.23	1305.78	441451	438822.17	1403.64	440889	438600.53	1244.5
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	441958	439020.67	1078.66	441393	439279.3	1106.29	441119	438669.53	1252.27	440396	438418.2	1077.26
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0

Table A.1850: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441770	439198.1	1192.25	440984	438530.43	1345.62	440118	437911.5	1366.12	440021	438344.5	1234.66
		2op	439105	438102.73	540.18	438417	437454.47	219.59	437398	437398	0	437398	437398	0
	50	rnd	441369	439298.97	1025.76	441680	438927.73	1076.38	441063	438393.83	1376.42	440051	437912.63	1163.38
51	20	rnd	439662	438204.3	550.13	438971	437554.67	387.13	437398	437398	0	437398	437398	0
		2op	442115	439011.4	1326.28	441144	438807.8	1451.82	440377	438167	1117.34	440247	437981.77	1429.8
	50	rnd	438919	437838.47	470.44	439548	437752.67	587.72	438357	437429.97	175.09	437398	437398	0
	20	rnd	441926	439196.93	1134.17	442078	438950.53	1503.35	441200	438805.7	1131.83	439938	437871.27	1325.81
		2op	439040	438082.47	435.92	438527	437672.07	382.13	437825	437412.23	77.96	437398	437398	0

Table A.1851: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441453	439012.43	1283.58	441181	439192.07	1288.63	441532	438532.9	1635.93	441010	438329.03	1551.12
		2op	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
	50	rnd	441049	438757.53	1158.59	441049	438776.97	1087.1	440169	438402.27	1285.38	440042	438236.13	1041.71
51	20	rnd	437398	437398	0	437398	437398	0	437398	437398	0	437398	437398	0
		2op	440953	439232.97	952.69	440953	439232.97	952.69	441367	438379.4	1543.8	440312	438623.57	1300.69
	50	rnd	439393	437565.6	517.83	439393	437551.2	479.58	437398	437398	0	437398	437398	0
	20	rnd	441453	439129.57	1316.46	441453	439135.5	1311.86	441712	439081.93	1128.11	440590	438385.07	1244.08
		2op	439642	437609	645.91	439642	437609	645.91	437398	437398	0	437398	437398	0

Table A.1852: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440746	438867.97	1301.33	440840	439018.83	1018.53	441978	438503.93	1117.13	440304	437982.37	1291.64
		2op	439073	438077.83	440.57	438880	437859.33	463	437398	437398	0	437398	437398	0
	50	rnd	441262	439237.67	1194.97	441532	438940.6	1701.11	441365	438503.73	1436.87	441129	438344.37	1304.22
51	20	rnd	439515	438255.73	430.01	438533	437996.13	375.73	437398	437398	0	437398	437398	0
		2op	441626	439373.5	1255.63	441626	439483.53	1246.81	440925	438663.17	1334.47	440166	438301.8	929.55
	50	rnd	439298	438160.37	446.56	438871	438019.5	356.86	437398	437398	0	437398	437398	0
	20	rnd	441146	439291.83	1180.87	442356	439312.2	1252.44	441429	438728.43	1388.88	440472	438328.1	1180.34
		2op	439101	438179.47	333.7	439600	438177.93	481.53	438193	437440	165.61	437398	437398	0

Table A.1853: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115741	114802.93	434.43	115993	114811.83	506.51	115744	114827.03	664.09	115808	114876.57	555.67
		2op	115851	115525.23	61.53	115514	115514	0	115514	115514	0	115514	115514	0
	50	rnd	115994	115026.07	562.12	115873	115188.57	458.97	116177	114914.37	609.54	115754	114670.17	543.26
51	20	rnd	115833	114958.93	501.25	115851	114896.1	414.29	115725	114907.03	580.6	115753	114843.43	563.73
		2op	115917	115544.7	96.21	115782	115522.93	48.93	115514	115514	0	115514	115514	0
	50	rnd	115952	114948.67	541.85	116124	114938.4	570.57	115735	114860.03	496.8	115490	114664.33	445.38
		2op	115514	115513.97	0.18	115514	115514	0	115514	115514	0	115514	115514	0

Table A.1854: *j02459_7*: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	116017	115155.63	442.87	115820	114859.47	490.41	116248	114811.33	564.26	115420	114584.37	517.36
		2op	116365	115668.37	247.26	115922	115529.4	183.78	115514	115514	0	115514	115514	0
	50	rnd	115821	115035.97	462.06	115872	114999.67	476.83	115768	114972.43	480.4	115601	114849.4	560.44
51	20	rnd	115987	115565.17	223.54	116071	115608.77	206.91	115547	115501.8	72.39	115514	115514	0
		2op	116242	114986.67	667.04	116434	115413.63	396.86	115619	114781.63	453.06	115930	114819.53	502.83
	50	rnd	115990	115543.13	190.85	115991	115687.67	170.18	115653	115430.97	154.08	115514	115514	0
		2op	116066	115119.6	471.17	116299	115389	572.8	116243	115078.1	573.53	115717	114705.07	560.4
		2op	115921	115572.4	189.34	116428	115812.17	202.83	115858	115522.13	156	115514	115514	0

Table A.1855: *j02459_7*: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115817	115065.97	514.33	115626	114797.73	527.07	115976	114843.4	494.71	115737	114668.2	426.4
		2op	115514	115514	0	115514	115514	0	115514	115514	0	115514	115514	0
	50	rnd	115839	115173.83	459.92	115614	114912.83	433.06	115983	114694.33	569.27	115778	114784.53	549.5
51	20	rnd	115514	115514	0	115514	115514	0	115514	115514	0	115514	115514	0
		2op	116009	115007.27	459.63	116323	114945.27	614.95	115956	115033.4	587.18	115713	114743.93	547.53
	50	rnd	115651	115518.57	25.01	115514	115514	0	115514	115514	0	115514	115514	0
		2op	116139	114971.3	547.39	116308	115073.63	551.94	116026	115037.17	433.96	115847	114729.2	467.54
		2op	115864	115525.67	63.9	115514	115514	0	115514	115514	0	115514	115514	0

Table A.1856: *j02459_7*: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	116006	115092.7	475.8	116087	115200.57	540.09	115774	114999.83	392.1	115283	114585.63	557.15
		2op	115970	115627.9	150.15	115998	115521.53	153.79	115514	115510.53	18.99	115514	115514	0
	50	rnd	115872	115043.9	483.68	115712	115220.23	378.52	115742	114704.2	528.3	115724	114705.97	525.73
51	20	rnd	116123	115599.5	240.74	116065	115609.83	245.35	115670	115509.27	79.91	115514	115514	0
		2op	116017	115136.43	571.5	116047	115289.37	500.7	115740	114863	484.69	116175	114743.03	640.99
	50	rnd	116082	115616.6	224.95	116448	115804	260.64	115888	115514.5	137.05	115514	115514	0
	20	rnd	116044	115151.23	525.99	116296	115595.97	388.16	116080	115046.37	535.27	115851	114823.7	513.33
		2op	116327	115626.7	258.47	116454	115845.23	132.71	116023	115516.77	165.15	115514	115514	0

Table A.1857: *j02459_7*: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115844	114944.93	508.51	116131	115072.57	533.08	115682	114727.33	433.13	115682	114816.4	533.12
		2op	116239	115635.93	266.59	116114	115609.7	215.92	115514	115514	0	115514	115514	0
	50	rnd	115914	114884.93	488.41	115777	114892.6	504.56	115645	114961.23	392.1	115617	114781.03	453.88
51	20	rnd	116121	115525.2	163.4	115940	115504.57	118.76	115514	115514	0	115514	115514	0
		2op	116241	115363.1	479.46	116241	115322.57	437.13	115990	115012.53	501.07	115913	114669.37	709.08
	50	rnd	116383	115601.03	315.1	116383	115594.63	321.14	115514	115514	0	115514	115514	0
	20	rnd	116147	115478.1	391.75	116662	115601.07	409.23	116207	115136.37	599.75	116174	114855.43	727.06
		2op	116442	115859.37	328.02	116442	115852.57	334.08	115514	115514	0	115514	115514	0

Table A.1858: *j02459_7*: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115930	115111.73	395.23	116164	115122.13	521.87	115381	114658.13	463.67	115460	114632.77	620.94
		2op	116352	115637.87	266.33	116000	115602.8	208.92	115514	115514	0	115514	115514	0
	50	rnd	115846	115141.03	401.37	116094	114940.33	528.72	115831	114763.43	480.57	115837	114792.47	608.15
51	20	rnd	116018	115626.93	234.79	116213	115603.43	257.22	115514	115510.93	11.72	115514	115514	0
		2op	116116	115195.97	524.34	116223	115345.77	516.56	115529	114858.47	453.21	115856	114623.7	539.41
	50	rnd	116038	115609.9	223.01	116406	115678.7	266.25	116077	115499.3	208.18	115514	115514	0
	20	rnd	116171	115112.43	551.37	115915	115208.67	527.96	115665	114905.9	472.85	115604	114842.9	548.75
		2op	116091	115686.87	210.99	116039	115600.87	226.11	115795	115502.4	102.22	115514	115514	0

Table A.1859: *j02459_7*: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38534	38280.97	159	38522	38256.27	153.44	38593	38210	160.23	38526	38147.33	234.82
		2op	38408	38236.07	45.93	38389	38229.5	30.12	38224	38224	0	38224	38224	0
	50	rnd	38578	38297.57	167.63	38618	38260.77	230.09	38548	38232.3	196.14	38534	38166.03	215.66
51	20	rnd	38415	38237.8	44.39	38414	38232.2	35.82	38224	38224	0	38224	38224	0
		2op	38548	38234.77	226.42	38617	38312.97	167.02	38591	38270	204.43	38586	38250.1	226.13
	50	rnd	38432	38278.6	85.69	38519	38345.77	89.96	38417	38230.43	35.24	38224	38224	0
	20	rnd	38567	38282.07	197.8	38623	38310.5	178.5	38613	38320.07	175.33	38638	38231.23	194.55
		2op	38440	38315.8	90.67	38437	38346.07	86.13	38407	38235.13	42.58	38224	38224	0

Table A.1860: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38562	38301.57	173.93	38639	38429.17	138.89	38581	38280.3	230.59	38531	38211.8	225.03
		2op	38414	38362.77	69.61	38437	38413.57	11.13	38557	38305.23	109.24	38224	38224	0
	50	rnd	38665	38293.2	211.3	38636	38410.17	170.67	38668	38292.03	230.51	38588	38197.73	176.85
51	20	rnd	38414	38390.3	45.51	38442	38427.37	14.51	38524	38408.23	31.36	38224	38224	0
		2op	38566	38326.07	158.72	38694	38419.03	139.31	38650	38403.9	109.69	38580	38151.07	275.96
	50	rnd	38437	38390.27	51.62	38442	38430.43	13.02	38418	38405.3	9.96	38409	38259.93	73.25
	20	rnd	38681	38313.03	203.92	38690	38444.5	159.88	38690	38390.47	175.05	38542	38238	206.59
		2op	38432	38387.57	50.46	38442	38438.2	9	38529	38418.5	24.86	38519	38324.87	92.83

Table A.1861: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38584	38249.13	199.44	38570	38262.9	191.95	38664	38205.2	221.54	38537	38174.77	228.22
		2op	38224	38224	0	38224	38224	0	38224	38224	0	38224	38224	0
	50	rnd	38432	38164.63	185.73	38580	38264.8	208.7	38527	38260.43	181.29	38518	38177.9	242.61
51	20	rnd	38224	38224	0	38445	38231.37	40.35	38224	38224	0	38224	38224	0
		2op	38612	38286.43	189.73	38567	38310.8	183.47	38462	38174.57	204.65	38546	38122.67	249.77
	50	rnd	38424	38315.37	86.32	38436	38338.13	83.99	38419	38230.5	35.6	38224	38224	0
	20	rnd	38567	38291.5	149.4	38546	38310.27	163.36	38590	38216.5	186.08	38492	38210.7	199.32
		2op	38445	38287.1	88.31	38504	38360.33	74.25	38417	38244.07	54.19	38224	38224	0

Table A.1862: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38663	38370.53	183.17	38688	38449.33	146.81	38567	38136.13	281.51	38686	38216.17	224.51
		2op	38437	38378.57	66.02	38442	38417.33	14.97	38441	38271.2	80.57	38224	38224	0
	50	rnd	38509	38278.1	154.26	38681	38424.5	181.48	38563	38281.97	212.13	38619	38200.03	248.5
51	20	rnd	38414	38376.3	62.74	38442	38421.87	14.16	38557	38414.3	44.85	38224	38224	0
		2op	38635	38350.6	170.02	38634	38453.33	109.95	38609	38345.47	177.26	38486	38199.9	182.12
	50	rnd	38441	38396.23	47.55	38442	38426.5	13.82	38437	38411.83	13.72	38411	38253.03	66.24
	20	rnd	38662	38307.9	195.03	38635	38445.43	120.59	38644	38421.6	140.37	38633	38182	226.91
		2op	38414	38384.3	55.19	38442	38434.17	11.16	38437	38418.77	14.66	38530	38312.9	101.16

Table A.1863: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38642	38381.47	136.74	38575	38353.5	157.08	38663	38206.67	240.09	38655	38185.2	221.33
		2op	38442	38375.1	73.06	38441	38366.53	77.03	38224	38224	0	38224	38224	0
	50	rnd	38629	38330.37	159.01	38612	38394.33	160.15	38626	38201.47	211.23	38626	38210.33	195.38
51	20	rnd	38437	38363.67	82.33	38437	38353.3	86.15	38224	38224	0	38224	38224	0
		2op	38604	38357.5	153.02	38664	38352.87	168.32	38652	38253.73	179.48	38573	38214.4	188.94
	50	rnd	38442	38424.6	13.82	38442	38441.67	1.27	38451	38331.73	91.07	38224	38224	0
	20	rnd	38572	38370.5	173.5	38651	38402.17	146.72	38515	38250.43	211.52	38491	38106.53	239.65
		2op	38442	38435.37	10.64	38442	38439.7	3.95	38418	38312.43	90.26	38224	38224	0

Table A.1864: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38683	38351.67	161.01	38661	38325.07	216.74	38634	38164.57	209.57	38612	38185.97	238.01
		2op	38414	38406.23	6.38	38418	38405.6	8.02	38436	38296.5	90.8	38224	38224	0
	50	rnd	38695	38393.23	156.29	38681	38375.73	188.54	38535	38210.73	184.82	38571	38214.37	238.86
51	20	rnd	38432	38410.9	5.97	38432	38409.93	5.62	38427	38333.67	85.76	38224	38224	0
		2op	38636	38372.23	146.63	38614	38397	150.09	38690	38327.8	223.17	38553	38152.83	229.71
	50	rnd	38437	38414.27	11.36	38442	38417.27	12.74	38437	38402.27	21.69	38224	38224	0
	20	rnd	38652	38400.07	122.41	38619	38454.7	115.36	38566	38239	201.35	38687	38171.97	260.43
		2op	38437	38411.47	6.59	38437	38409.53	6.4	38432	38389.17	47.01	38432	38247.33	61.02

Table A.1865: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47921	47597.23	222.05	47846	47537.33	229.16	47961	47547.23	337.94	47899	47546.2	261.82
		2op	47349	47349	0	47349	47349	0	47349	47349	0	47349	47349	0
	50	rnd	48034	47613.93	270.9	47894	47522.63	265.52	47917	47464	316.18	47862	47600.7	190.43
51	20	rnd	47742	47387.57	117.69	47705	47360.87	65	47349	47349	0	47349	47349	0
		2op	47870	47585.3	220.5	47843	47546.53	290.98	47905	47584.07	210.88	48023	47503.47	271.02
	50	rnd	47830	47517.1	191.54	47830	47535.47	186.62	47349	47349	0	47349	47349	0
	20	rnd	47948	47612.33	190.72	47897	47622.27	185.14	47998	47554.73	238.16	47849	47528.27	252.6
		2op	47758	47421.27	160.61	47814	47617	170.73	47738	47361.97	71.02	47349	47349	0

Table A.1866: *m15421_6*: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47887	47634.7	201.76	47961	47598.37	242.98	47899	47577.83	284.19	47846	47431.87	287.17
		2op	47758	47560.4	175.67	47758	47740.57	50.44	47742	47373.5	93.48	47349	47349	0
	50	rnd	48052	47583.2	266.79	47976	47679.03	219.24	47855	47557.7	224.18	47939	47515.83	257.85
51	20	rnd	47758	47531.4	181.21	47758	47756.97	3.05	47758	47436.47	149.75	47349	47349	0
		2op	47934	47579.13	253.99	47977	47729.47	172.11	47953	47594.07	303.22	47939	47512.67	305.14
	50	rnd	47758	47569.9	180.1	47758	47757.4	1.22	47758	47701.33	114.56	47349	47349	0
	20	rnd	47864	47498.3	244.8	47943	47608.87	242.41	47978	47612.03	232.9	47833	47486	232
		2op	47758	47519.23	163.37	47758	47756.8	1.49	47758	47748.1	9.55	47742	47362.1	71.75

Table A.1867: *m15421_6*: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48021	47635.27	187.35	47909	47630.5	225.44	47862	47579.8	254.74	47943	47560.4	313.84
		2op	47349	47349	0	47349	47349	0	47349	47349	0	47349	47349	0
	50	rnd	47934	47542.97	253.67	47961	47605.63	234.32	48002	47575.93	260.72	48027	47545.97	262.63
51	20	rnd	47416	47351.23	12.23	47414	47351.17	11.87	47349	47349	0	47349	47349	0
		2op	47933	47560.23	245.43	47868	47559.67	205.52	47923	47611.33	235.31	47866	47553.37	174.66
	50	rnd	47758	47463.3	167.64	47758	47454.97	163.03	47349	47349	0	47349	47349	0
	20	rnd	48043	47648.77	240.31	47897	47544.87	266.43	47915	47577.23	225.94	47972	47509.57	274.39
		2op	47758	47474.5	168.8	47758	47552.27	175.25	47458	47352.63	19.9	47349	47349	0

Table A.1868: *m15421_6*: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47923	47606.9	228.35	48030	47640.4	238.01	47864	47484.77	252.36	47925	47482.5	256.88
		2op	47758	47616.63	166.66	47758	47741	53.47	47758	47376.27	103.77	47349	47349	0
	50	rnd	47830	47514.73	281.53	47923	47634.33	235.57	47914	47520.23	269.74	47916	47568.33	236.33
		2op	47758	47542.57	182.33	47758	47755.93	4.64	47758	47463.33	175.76	47349	47349	0
51	20	rnd	48052	47612.5	260.85	47978	47723.43	191.86	47968	47656.3	173.46	47839	47510.6	228.83
		2op	47758	47512.27	168.74	47758	47757.4	1.22	47758	47613.87	169.85	47349	47349	0
	50	rnd	47877	47521	236.2	47864	47611.53	192.33	48050	47631.1	272.82	47916	47589.27	229.59
		2op	47758	47556.63	172.46	47758	47757.2	1.35	47758	47725.5	80.04	47738	47373.37	92.94

Table A.1869: *m15421_6*: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47961	47668.43	179.28	47961	47647.5	194.33	47967	47606.47	197.48	48027	47525.53	293.73
		2op	47814	47635.97	162.84	47814	47618.37	168.93	47349	47349	0	47349	47349	0
	50	rnd	48034	47702.27	197.28	48032	47604.37	243.09	47933	47567.07	217.95	47836	47558.2	261.46
		2op	47758	47635.83	163.78	47758	47630	170.96	47349	47349	0	47349	47349	0
51	20	rnd	47972	47592.1	275.32	48052	47737.17	174.18	47952	47521.4	377.02	48043	47548.93	314.69
		2op	47758	47751.67	7.45	47758	47756.53	4.08	47758	47438.23	165.18	47349	47349	0
	50	rnd	47879	47632.07	205.85	47978	47638.33	214.15	47974	47628.07	230.92	47862	47546.23	215.16
		2op	47758	47753.87	7.21	47758	47753.17	9.58	47758	47573.33	188.45	47349	47349	0

Table A.1870: *m15421_6*: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48036	47561.9	305.73	47949	47583.7	229.28	48032	47596.57	236	47910	47539.4	262.32
		2op	47758	47596.7	170.5	47758	47634.67	157.67	47758	47402.5	138.77	47349	47349	0
	50	rnd	47973	47630.17	227.19	47977	47678	198.1	47944	47483.83	312.28	47943	47457.27	280.78
		2op	47758	47698.13	127.58	47758	47709.27	116.37	47758	47377.83	102.4	47349	47349	0
51	20	rnd	47961	47642.77	269.05	48032	47605.7	260.7	47924	47611.53	277.57	47848	47578.77	181.18
		2op	47758	47741.87	61.61	47758	47755.67	5.5	47758	47579.57	192.97	47349	47349	0
	50	rnd	48052	47631.8	192.62	47923	47612.7	232.86	47973	47568.17	290.19	47898	47502.57	241.79
		2op	47758	47741.23	61.51	47758	47744.77	32.06	47758	47472.83	162.48	47349	47349	0

Table A.1871: *m15421_6*: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54876	54399.93	310.77	54998	54335.17	287.61	54876	54344.57	374.8	54921	54336.9	344.49
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	55093	54383.13	327.88	55024	54416.37	330.3	54985	54380	243.85	55100	54313.33	364.19
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
51	20	rnd	54898	54295.1	430.67	54909	54414.27	341.58	54752	54290.43	372.14	54955	54322.97	270.66
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	54903	54403.1	314.85	55078	54597.97	222.49	54960	54393.73	372.39	54951	54349.9	337.73
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0

Table A.1872: *m15421_7*: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54793	54295.93	273.53	55042	54617	281.13	54960	54386.57	293.82	54880	54300.37	341.91
		2op	54753	54729.6	19.87	54959	54742	43.65	54705	54705	0	54705	54705	0
	50	rnd	54895	54401.7	349.47	55036	54616.77	284.17	54884	54368.53	424.05	54827	54397.83	274.96
		2op	54753	54733.93	17.78	54756	54747.7	4.22	54745	54707.53	9.66	54705	54705	0
51	20	rnd	55010	54416.93	318.3	55020	54702.4	221.66	55030	54411.2	278.39	54895	54301.27	325.7
		2op	54754	54731.7	19.26	54771	54751.9	6.09	54747	54724.8	17.88	54741	54706.2	6.57
	50	rnd	54961	54531.8	238.89	55033	54729.57	224.56	55010	54442.87	377.26	54787	54312.47	299.41
		2op	54754	54740.5	13.14	54754	54752.2	4.22	54959	54744.03	43.8	54705	54705	0

Table A.1873: *m15421_7*: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55112	54443.47	335.24	55014	54381.13	405.03	55084	54432.3	355.28	55018	54299.83	353.09
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	54837	54331.9	369.22	54866	54304.77	334.66	54902	54405.9	333.46	54912	54335.63	378.13
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
51	20	rnd	55096	54459.77	285.42	54773	54346.07	315.41	54927	54311.13	315.53	54801	54293	354.18
		2op	54705	54705	0	54705	54705	0	54705	54705	0	54705	54705	0
	50	rnd	54951	54479.5	307.32	54931	54552.3	305.06	55046	54433.57	295.44	54924	54427.27	352.54
		2op	54745	54707.53	9.66	54710	54705.17	0.91	54705	54705	0	54705	54705	0

Table A.1874: *m15421_7*: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54901	54400.77	319.38	55017	54643.03	251.92	54827	54341.97	352.12	54872	54356.33	359.93
		2op	54959	54740.03	44.92	54754	54735.17	15.2	54705	54705	0	54705	54705	0
	50	rnd	54901	54418.63	369.46	55044	54652.27	263.2	54880	54249	333.86	54788	54203.73	333.19
51	20	rnd	54901	54418.63	369.46	55044	54652.27	263.2	54880	54249	333.86	54788	54203.73	333.19
		2op	54754	54734.13	18.79	54756	54747.2	4.27	54745	54706.5	7.33	54705	54705	0
	50	rnd	54934	54441.47	294.08	55017	54653.27	241.31	55050	54398.23	320.94	54853	54379.4	243.98
	20	rnd	54754	54732.47	18.76	54756	54749.93	4.63	54747	54726.5	20.52	54705	54705	0
		2op	54974	54478.87	314.79	55133	54705	289.19	55075	54520.8	310.71	54805	54323.33	325.92
	50	rnd	54754	54735.8	17.05	54771	54753.67	4.27	54959	54740.3	44.98	54705	54705	0

Table A.1875: $m15421.7$: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55039	54504.57	370.09	54864	54485.6	277.31	54921	54370.57	321.8	54842	54340.5	374.99
		2op	54754	54713.5	16.55	54754	54712.63	16.5	54705	54705	0	54705	54705	0
	50	rnd	55135	54525.7	316.76	54882	54361.77	332.7	54866	54278.97	393.39	54899	54383.23	348.37
51	20	rnd	54754	54711.53	15.99	54754	54710.9	15.07	54705	54705	0	54705	54705	0
		2op	54981	54605.4	307.96	55036	54761.87	205.64	55037	54481.4	340.66	54942	54183.1	423.38
	50	rnd	54754	54741.33	14.81	54769	54748.8	6.08	54705	54705	0	54705	54705	0
	20	rnd	55168	54752.33	221.71	55146	54653	315.35	54834	54346.83	325.27	54913	54309.4	397.13
		2op	54754	54748.17	5.57	54769	54745.37	11.98	54733	54705.93	5.11	54705	54705	0

Table A.1876: $m15421.7$: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54916	54462.3	417.34	54898	54534.97	295.39	54939	54354.97	361.88	54834	54348.53	281.78
		2op	54754	54740.73	14.42	54959	54747.63	42.45	54705	54705	0	54705	54705	0
	50	rnd	54962	54596.3	251.39	55008	54646.6	232.74	54937	54307.93	324.83	54945	54355.3	334.98
51	20	rnd	54754	54743.93	7.55	54754	54740.2	12.92	54741	54706.7	7.03	54705	54705	0
		2op	55119	54496.13	299.05	55034	54497.4	333.76	54871	54491.6	327.01	55031	54326.07	372.7
	50	rnd	54756	54747.9	4.49	54756	54746.93	4.08	54747	54719.97	19.1	54705	54705	0
	20	rnd	54964	54584.7	245.25	55001	54623	249.28	54898	54395.33	447.39	54856	54238.9	380.1
		2op	54754	54746.8	3.66	54754	54740.5	11.94	54754	54715.93	19.32	54705	54705	0

Table A.1877: $m15421.7$: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	
11	20	rnd	11478	11237.07	132.28	11478	11288.27	124.89	11394	11239.67	115.93	11478	11207.7	
		2op	11109	11020.4	35.83	11394	11256.57	87.55	11109	11013.33	26.68	11003	11003	
	50	rnd	11478	11280	148.03	11478	11306.23	117.68	11478	11283.97	136.2	11478	11187.67	
		2op	11305	11049.03	80.26	11373	11288.37	50.97	11373	11091.87	100.01	11003	11003	
51	20	rnd	11478	11187.8	159.42	11478	11262.57	129.55	11478	11271.4	138.81	11478	11210.13	
		2op	11109	11019.4	25.14	11285	11129.57	53.53	11305	11222.3	83.5	11109	11055.73	
	50	rnd	11478	11228.27	136.19	11478	11328.2	111.72	11478	11335.17	111.36	11478	11214.73	
		2op	11109	11069.73	45.01	11373	11240.73	81.74	11373	11289.37	48.7	11109	11032.87	

Table A.1878: *x60189_4*: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11372	11163.17	185.28	11478	11283.67	97.36	11478	11292.17	159.33	11478	11235.47	155.04
		2op	11109	11026.73	36.79	11305	11143.9	71.29	11109	11109	0	11017	11003.93	3.55
	50	rnd	11413	11173.3	146.44	11478	11235.73	141.51	11478	11248.5	156.46	11478	11240.73	140.18
		2op	11109	11027.67	35.09	11285	11160.9	75.06	11285	11131.5	58.53	11109	11058.07	48.67
51	20	rnd	11411	11151.93	148.78	11478	11335.13	101.16	11478	11270.83	166.61	11478	11257.53	136.21
		2op	11109	11021.07	29.05	11109	11109	0	11285	11151.1	71.39	11109	11109	0
	50	rnd	11411	11104.83	180.46	11478	11289.93	123.35	11478	11242.43	169.44	11478	11277.6	136.2
		2op	11109	11020.6	30.71	11109	11109	0	11305	11170.4	83.29	11109	11109	0

Table A.1879: *x60189_4*: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11230.13	170.13	11478	11320.5	111.25	11478	11225.67	137.73	11478	11175.8	158.56
		2op	11285	11026.67	63.08	11394	11279.3	57.75	11151	11023.47	43.5	11003	11003	0
	50	rnd	11478	11218.07	135.86	11478	11293	144.26	11478	11255.73	114.37	11478	11217.8	134.3
		2op	11213	11022.93	48.02	11394	11297.97	42.04	11305	11091.07	94.05	11003	11003	0
51	20	rnd	11478	11213.67	148.09	11478	11230.6	124.76	11478	11261.6	105.37	11478	11190.27	175.77
		2op	11109	11038.6	40.66	11305	11141.6	68.5	11305	11201.43	89.68	11109	11072.47	49.02
	50	rnd	11478	11230.9	169.15	11478	11318.57	119.31	11478	11349.47	93.22	11478	11285.03	161.63
		2op	11305	11059.2	66.6	11373	11272.63	74.59	11373	11291.7	46.57	11305	11034.47	64.12

Table A.1880: *x60189_4*: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11413	11186.03	169.57	11478	11302.2	102.8	11478	11236.43	139.97	11478	11180.3	167.06
		2op	11109	11017.53	25.78	11285	11140.33	64.04	11305	11115.53	35.78	11017	11003.47	2.56
	50	rnd	11343	11113.1	200.56	11478	11256.97	140.15	11413	11238.03	138.98	11478	11263.2	117.05
		2op	11109	11020.6	29.23	11305	11168.77	81.01	11256	11113.9	26.84	11109	11032.87	42.13
51	20	rnd	11411	11154.5	186.11	11413	11263.07	132.91	11478	11322.17	104.69	11478	11268.4	120.47
		2op	11109	11022	28.67	11109	11109	0	11305	11132.17	60.42	11109	11109	0
	50	rnd	11413	11230.27	109.03	11478	11262.4	136.1	11478	11290.77	137.27	11478	11296.7	129.29
		2op	11109	11022.73	33.75	11109	11109	0	11285	11155.03	71.83	11109	11109	0

Table A.1881: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11237.8	147.52	11478	11332.23	107.05	11478	11205	188.23	11394	11182.2	159.84
		2op	11109	11069.87	48.95	11411	11304	37.99	11109	11011.47	26.85	11003	11003	0
	50	rnd	11478	11223.17	146.8	11478	11309.63	120.12	11478	11209.87	141.88	11478	11169.17	167.18
		2op	11256	11088.13	62.92	11394	11276.17	71.69	11109	11015.47	32.07	11003	11003	0
51	20	rnd	11478	11244.43	134.22	11478	11324.77	121.66	11478	11257.57	126.35	11478	11221.63	147.46
		2op	11109	11084.47	41.38	11305	11132.83	62.25	11151	11079.73	45.75	11003	11003	0
	50	rnd	11478	11258.67	127.41	11478	11291	124.43	11478	11205.6	154.43	11413	11178.03	172.84
		2op	11305	11114.3	51.23	11305	11205.2	84.17	11305	11050.67	65.17	11017	11004.4	4.27

Table A.1882: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11413	11201.83	181.96	11413	11219.5	153.54	11478	11212.13	168.07	11394	11133.73	171.11
		2op	11109	11044.6	42.88	11109	11108.07	3.55	11109	11009.8	19.67	11003	11003	0
	50	rnd	11394	11210.1	131.37	11478	11231.77	157.9	11478	11241.53	124.6	11411	11150.9	162.94
		2op	11109	11063	46.79	11305	11120.43	43.98	11109	11032.4	41.33	11095	11006.07	16.8
51	20	rnd	11413	11192.23	168.93	11478	11248.73	88.83	11478	11214.47	195.39	11411	11139.2	190.44
		2op	11109	11084.47	41.38	11151	11110.4	7.67	11151	11076.67	48.58	11017	11004.4	4.27
	50	rnd	11413	11214.83	154.25	11478	11262.07	135.99	11478	11268.13	107	11478	11169.77	169
		2op	11109	11084.47	41.38	11109	11105.47	16.9	11151	11103.33	25	11109	11008.4	19.6

Table A.1883: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13871.53	142.99	14161	13975.1	116.01	14123	13841.97	133.14	14133	13847.53	163
		2op	14001	13848.3	119.97	14157	14014.4	43.46	13995	13744.63	73.03	13721	13721	0
	50	rnd	14157	13863.53	190.48	14137	13950.5	126.5	14161	13883.1	164.59	14133	13767.93	206.85
51	20	rnd	14133	13874.5	124.56	14157	14040.7	56.61	14001	13810.57	104.26	13721	13721	0
		2op	14133	13872	183.56	14137	13953.77	91.57	14161	13952.93	141.52	14133	13875.13	153.45
	50	rnd	14038	13870.4	94.46	14157	14021.3	64.59	14038	13993.43	31.03	13867	13725.87	26.66
	20	rnd	14071	13875.23	158.06	14161	13988.2	121	14161	13986.77	126.72	14161	13832.97	168.16
		2op	14038	13908.07	87.86	14157	14022.6	57.46	14157	14011.33	46.88	13827	13724.53	19.35

Table A.1884: $x60189_5$: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13863.17	157.25	14157	13984.07	152.54	14157	13916.77	169.64	14157	13832.93	194.87
		2op	13938	13770.63	61.03	14064	13981.43	29.5	14038	13950.93	66.4	13721	13721	0
	50	rnd	14133	13866.87	179.76	14137	13948.57	127.39	14161	13997.83	121.63	14133	13899.3	171.63
51	20	rnd	13938	13791.8	64.6	14157	14016.93	67.66	14038	13978.1	17.07	13922	13737.77	46.44
		2op	14161	13888.5	142.32	14161	13922.1	180.06	14161	13982.17	137.48	14161	13948.63	139.72
	50	rnd	13938	13803.1	78.63	14133	13989.27	40.11	14157	13978.63	35.57	13995	13810.4	101.21
	20	rnd	14161	13883.53	165.87	14161	13948.7	159.84	14161	13994.43	129.84	14161	13913.63	166.23
		2op	13827	13752.8	49.41	14038	13963.3	26.88	14157	14004.3	45.77	13995	13844.87	93.93

Table A.1885: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14133	13848.63	176.87	14139	13960.7	133.13	14139	13844.87	178.23	14105	13745.6	187.53
		2op	14038	13879.5	122.4	14157	14023.67	57.18	13995	13738.33	66.07	13721	13721	0
	50	rnd	14139	13876.3	134.02	14157	13993.57	137.36	14157	13888.27	163.44	14137	13836.5	201.54
51	20	rnd	14038	13887.9	119.86	14157	14021.8	44.65	14038	13801.8	117.56	13721	13721	0
		2op	14137	13870.57	149.93	14137	13925.4	98.89	14161	13933.4	162.71	14139	13907.77	189.39
	50	rnd	14038	13852.8	100.79	14157	14000	36.16	14064	13994.53	23.28	13932	13734.73	52.28
	20	rnd	14139	13902.93	166.91	14161	14001.17	107.2	14161	14008.03	132.43	14137	13768.83	186.91
		2op	14038	13912.9	99.36	14157	14033.43	62.35	14157	14035.2	52.56	14038	13734.57	59.62

Table A.1886: $x60189_5$: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14137	13878.37	161.37	14161	14023.97	118.29	14161	13922.97	162.82	14094	13812.57	143.47
		2op	13938	13774.33	67.58	14157	13982.67	46.51	13995	13916.6	77.32	13721	13721	0
	50	rnd	14133	13858.27	172.71	14161	13942.77	137.44	14157	13983.23	114.58	14066	13880.43	124.19
51	20	rnd	14137	13852.37	196.11	14161	13956.43	160.07	14157	13945.7	151.4	14157	13927.87	140.94
		2op	13932	13773.97	60.58	14157	13996.17	52.13	14157	13983.43	42.7	13995	13816	94.87
	50	rnd	14103	13899.23	134.03	14161	13939.17	172.31	14161	13965.33	142.15	14161	13966	132.08
		2op	13827	13774	53.91	14064	13968.03	47.98	14157	13997.43	53	14038	13820.9	92.31

Table A.1887: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13894.77	138.71	14161	13995.17	103.98	14161	13807.97	177.13	14139	13842.1	171.19
		2op	14038	13934.1	74.75	14157	14051.37	66.15	13995	13737.17	62.08	13721	13721	0
	50	rnd	14161	13886.2	168.28	14161	13982.37	138.17	14062	13771.5	148.98	14064	13800.23	157.74
51	20	rnd	14038	13975.77	74.52	14157	14039.43	67.56	14004	13755.53	89.85	13721	13721	0
		2op	14137	13903.27	145.27	14161	13934.97	124.11	14157	13903.87	173.99	14127	13814.5	177.43
	50	rnd	14038	13957.23	64.88	14038	14000.9	27.21	14038	13839.77	106.55	13721	13721	0
		2op	14137	13903.77	117.75	14161	13952.43	132.75	14161	13930.73	161.42	14161	13818.63	154.95
			14038	13973.77	44.61	14157	14009.43	51.22	13962	13791.17	94.58	13721	13721	0

Table A.1888: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13921.3	169.36	14161	13977.1	165.17	14133	13880.77	163.31	14099	13778.4	189.13
		2op	13948	13826.57	67.89	13995	13906.9	67.58	13827	13731.07	30.81	13721	13721	0
	50	rnd	14139	13948.6	187.77	14161	13929.07	180.92	14139	13861	179.45	14123	13835.73	146.61
51	20	rnd	13995	13831.1	58.92	14038	13962.87	37.54	13827	13731.6	32.34	13721	13721	0
		2op	14161	13953.43	129.72	14161	13924.77	140.61	14161	13933.6	152.83	14101	13901.1	125.92
	50	rnd	13995	13842	66.98	13995	13926.67	54.87	14038	13803.5	95.59	13721	13721	0
		2op	14139	13976.7	115.81	14137	13901.93	120.17	14139	13950.4	126.67	14133	13800.73	170.04
			13995	13848.2	49.23	14038	13924.6	56.51	13995	13795.9	75.5	13721	13721	0

Table A.1889: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18093	17878.13	161.36	18301	17995.8	150.08	18301	17902.7	212.55	18261	17880.73	193.21
		2op	18017	18003.2	11.46	18017	18001.67	11.03	17994	17994	0	17994	17994	0
	50	rnd	18175	17865.5	200.33	18184	18016.87	154.97	18172	17886.5	222.54	18301	17895.5	196.63
51	20	rnd	18017	18003.97	11.59	18017	18015.2	5.94	17994	17994	0	17994	17994	0
		2op	18184	17894.53	160.17	18171	18015.77	120.99	18301	17922.37	180.34	18176	17881.67	208.26
	50	rnd	18017	18007.03	11.59	18017	18017	0	18017	18000.9	10.72	17994	17994	0
	20	rnd	18114	17892.73	190.9	18132	17963.73	137.53	18156	17934.97	130.16	18172	17865.93	184.48
		2op	18017	18010.1	10.72	18017	18017	0	18017	18012.4	9.36	17994	17994	0

Table A.1890: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18143	17896.5	143.75	18216	17968.4	150.46	18175	17899.57	168.16	18172	17775.6	173.04
		2op	18017	18007.03	11.59	18017	18017	0	18017	18014.7	7.02	17994	17994	0
	50	rnd	18156	17898.47	119.35	18301	18043.23	133.01	18301	17913.8	205.57	18184	17861.8	174.5
51	20	rnd	18017	18006.27	11.67	18017	18017	0	18017	18017	0	18017	17994.77	4.2
		2op	18184	17894.9	185.83	18301	17905.57	175.7	18301	17955.8	164.02	18171	17908.5	166.84
	50	rnd	18017	18007.03	11.59	18017	18017	0	18017	18017	0	18017	18000.13	10.34
	20	rnd	18184	17927.93	186.42	18176	17897	153.5	18216	17984.5	158.08	18172	17944.6	145.68
		2op	18017	18004.73	11.67	18017	18017	0	18017	18017	0	18017	18000.13	10.34

Table A.1891: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17871.5	236.83	18171	17942.6	161.49	18159	17883.8	179.23	18171	17863.13	185.53
		2op	18017	17997.07	7.95	18017	18003.2	11.46	17994	17994	0	17994	17994	0
	50	rnd	18109	17910.27	122.16	18301	18003.7	155.81	18172	17879.77	166.3	18172	17908.8	188.91
51	20	rnd	18017	18001.67	11.03	18017	18016.23	4.2	17994	17994	0	17994	17994	0
		2op	18275	17945.23	137.44	18165	18016.23	119.84	18275	17981.63	153.66	18084	17803.43	172.73
	50	rnd	18017	18007.8	11.46	18017	18017	0	18017	18001.67	11.03	17994	17994	0
	20	rnd	18301	17981.63	144.69	18301	18015	122.82	18301	17949.83	156.97	18134	17899.43	121.66
		2op	18017	18007.8	11.46	18017	18017	0	18017	18016.23	4.2	17994	17994	0

Table A.1892: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18184	17904.53	169.43	18171	17997.93	162.82	18292	17917.37	165.15	18184	17817.83	235.51
		2op	18017	18005.5	11.7	18017	18017	0	18017	18009.33	11.03	17994	17994	0
	50	rnd	18172	17864.03	189.11	18301	18009.77	132.25	18172	17970.23	163.25	18142	17892.33	170.5
51	20	rnd	18017	18003.97	11.59	18017	18017	0	18017	18017	0	17994	17994	0
		2op	18175	17891.53	162.61	18186	17932.93	140.09	18301	18002.5	155.75	18109	17862.07	187.73
	50	rnd	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18017	17999.37	9.89
	20	rnd	18142	17867.37	160.8	18301	17941.1	185.16	18165	18001.77	111.52	18301	17892.67	214.65
		2op	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18017	18002.43	11.27

Table A.1893: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17960.13	158.52	18216	18036.9	120.84	18152	17877.5	144.8	18301	17900.93	151.42
		2op	18017	18017	0	18017	18017	0	17994	17994	0	17994	17994	0
	50	rnd	18152	17926.37	139.43	18301	18044.43	120.66	18156	17901.23	172.8	18152	17889.67	166.8
51	20	rnd	18017	18015.47	5.84	18017	18016.23	4.2	17994	17994	0	17994	17994	0
		2op	18181	17970.87	186.39	18165	17989.37	129.82	18152	17917.2	164.06	18260	17856.6	205.15
	50	rnd	18017	18017	0	18017	18017	0	18017	18008.57	11.27	17994	17994	0
	20	rnd	18176	18044.17	80.51	18172	17995.47	101.17	18176	17979.5	114.46	18216	17903.23	126.59
		2op	18017	18017	0	18017	18017	0	18017	18001.67	11.03	17994	17994	0

Table A.1894: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18156	17917.57	188.89	18151	17958.27	124.03	18301	17914.5	215.26	18275	17901.4	192.21
		2op	18017	18017	0	18017	18017	0	18017	17997.07	7.95	17994	17994	0
	50	rnd	18184	17919.23	122.16	18301	17986.4	133.83	18184	17915.57	183.71	18044	17793.5	187.15
51	20	rnd	18017	18016.23	4.2	18017	18017	0	18017	18000.13	10.34	17994	17994	0
		2op	18184	17961.5	156.15	18184	17959.37	164.85	18301	17990.73	121.92	18119	17832.63	156.75
	50	rnd	18017	18017	0	18017	18017	0	18017	18011.63	9.89	17994	17994	0
	20	rnd	18142	17938.87	147.49	18184	17910.1	161.73	18184	17908.07	187.22	18172	17883.47	169.04
		2op	18017	18017	0	18017	18017	0	18017	18011.63	9.89	17994	17994	0

Table A.1895: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21184	20874.67	189.25	21176	20948	174.25	21153	20863.37	246.93	21150	20869.97	195.18
		2op	20829	20829	0	21193	20855.17	78.95	20829	20829	0	20829	20829	0
	50	rnd	21170	20836.03	241.79	21190	20967.97	151.1	21271	20873.13	198.81	21196	20867.57	230.28
51	20	rnd	21008	20839.43	40.14	21210	20976.33	142.69	20829	20829	0	20829	20829	0
		2op	21203	20894.8	178.63	21196	20967.17	169.18	21187	20950.17	159.89	21192	20810.37	249.79
	50	rnd	20829	20829	0	21193	20946.9	119.15	21052	20836.43	40.71	20829	20829	0
	20	rnd	21245	20899.53	229.42	21196	20987.1	143.24	21206	20942.07	153.5	21172	20870.3	216.24
		2op	20889	20831	10.95	21193	20968.43	102.69	21193	20849.13	68.16	20829	20829	0

Table A.1896: $x60189_7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21209	20913.73	152.21	21172	20924.13	204.91	21149	20858.6	182.71	21212	20894.73	184.47
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	21212	20888.13	194.31	21212	20915.07	187.34	21177	20909.13	197.56	21206	20854.6	219.15
51	20	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	21162	20905.77	167.61	21212	21001.63	131.62	21173	20943.27	148.93	21181	20932.43	155.19
	50	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	20	rnd	21209	20928.57	180.12	21206	20917.43	214.95	21181	20994.13	113.41	21212	20897.33	212.19
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.1897: $x60189_7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21175	20933.83	192.27	21135	20923.17	170.92	21166	20807.47	217.94	21233	20848.9	212.81
		2op	21193	20846.73	72.23	21139	20846.53	63.26	20829	20829	0	20829	20829	0
	50	rnd	21235	20895.73	204.47	21212	21008.97	129.26	21113	20733.87	236.41	21157	20846	178.94
51	20	rnd	21077	20844.87	60.44	21193	20881.53	101.34	20829	20829	0	20829	20829	0
		2op	21190	20863.67	219.27	21161	20961.13	153.27	21197	20847.43	255.11	21212	20854.97	187.9
	50	rnd	20889	20831	10.95	21193	20935.27	118.67	20889	20831	10.95	20829	20829	0
	20	rnd	21180	20923.8	156.9	21196	21010	154.74	21233	20996.9	126.88	21168	20856.17	172.32
		2op	21042	20841.37	47.61	21135	20993.53	94.19	21187	20848.03	74.89	20829	20829	0

Table A.1898: $x60189_7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21210	20835.87	175.46	21212	20982.8	141.47	21212	20919.03	219.94	21132	20857.67	213.98
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	21198	20910.93	184.47	21218	20990.93	131.04	21184	20887.73	211.35	21162	20832.6	183.47
51	20	rnd	21163	20933.67	154.93	21190	20936.3	190.81	21186	20902.9	179.38	21160	20893.47	170.35
		2op	20829	20829	0	20991	20834.4	29.58	20829	20829	0	20829	20829	0
	50	rnd	21182	20885.63	202.88	21165	20910.03	181.92	21227	20981.93	156.73	21195	20917.4	186.39
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.1899: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21215	20898.1	173.55	21271	20993.43	141.23	21169	20869.83	205.33	21246	20852.7	204.59
		2op	20829	20829	0	21210	20912.03	111.33	20829	20829	0	20829	20829	0
	50	rnd	21271	20962.9	160.22	21233	21012.97	131.6	21190	20808.07	181.92	21160	20817.83	187.75
51	20	rnd	21008	20838.77	35.08	21193	20900.73	114.68	20829	20829	0	20829	20829	0
		2op	21203	20932.83	168.95	21203	20998.97	142.28	21132	20896.5	211.71	21224	20819	223.81
	50	rnd	20889	20831	10.95	21193	20924.97	116.71	20889	20831	10.95	20829	20829	0
		2op	21196	20953.27	154.7	21212	20940.5	172.73	21212	20889.37	235.14	21178	20849.07	189.47
			21193	20868.4	106.42	21193	20996	131.45	20889	20831	10.95	20829	20829	0

Table A.1900: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21215	20946.77	175.52	21165	20893.93	173.97	21160	20802.77	235.61	21130	20761.17	192.23
		2op	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
	50	rnd	21218	20880.3	234.83	21164	20919.77	172.46	21268	20844.03	234.4	21087	20795.5	177.88
51	20	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	21203	20889.43	213.15	21210	20951.67	168.38	21271	20954.1	177.98	21114	20830.47	199.72
	50	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0
		2op	21203	20876.77	177.48	21182	20974.33	140.35	21208	20846.57	212.16	21186	20845.23	211.51
			20829	20829	0	20829	20829	0	20829	20829	0	20829	20829	0

Table A.1901: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.53	1.85	596	594.3	1.44	596	593.7	1.56	596	590.47	2.99
		2op	596	592.13	2.85	596	594.83	0.87	596	594.63	0.96	595	590.37	2.31
	50	rnd	596	592.3	2.84	596	594.83	1.18	596	594.93	1.01	595	590.8	2.96
51	20	rnd	596	592.73	2.39	596	594.9	0.66	596	595.03	0.61	595	590.67	2.23
		2op	596	592.73	2.39	596	594.9	0.66	596	595.03	0.61	595	590.67	2.23
	50	rnd	595	591.77	2.19	596	594.13	1.55	596	594.53	1.25	596	593.53	1.94
	20	rnd	596	593.4	1.96	596	595.07	0.45	596	595.33	0.48	595	594.87	0.43
		2op	596	593.4	1.96	596	595.07	0.45	596	595.33	0.48	595	594.87	0.43
	50	rnd	596	593	2.13	596	595.27	0.74	596	595.03	0.76	596	593.83	1.86
	20	rnd	596	593.33	2.26	596	595.27	0.52	596	595.33	0.66	596	594.8	0.61
		2op	596	593.33	2.26	596	595.27	0.52	596	595.33	0.66	596	594.8	0.61
	50	rnd	596	593.33	2.26	596	595.27	0.52	596	595.33	0.66	596	594.8	0.61

Table A.1902: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	590.67	3.3	596	593.57	1.74	596	593.33	2.35	596	591.8	2.92
		2op	594	590.6	2.33	595	594.97	0.18	595	594.33	0.55	594	593.8	0.81
	50	rnd	596	590.9	3.92	596	592.3	2.15	596	593.6	1.98	595	592.17	2.73
51	20	rnd	594	590.67	2.19	595	595	0	595	594.97	0.18	595	594.1	0.31
		2op	594	590.67	2.19	595	595	0	595	594.97	0.18	595	594.1	0.31
	50	rnd	596	591.33	2.86	596	592.73	2.38	596	593.2	2.5	596	592.1	2.07
	20	rnd	594	591.03	2.3	595	594.63	0.96	596	594.93	0.37	595	594.2	0.48
		2op	594	591.03	2.3	595	594.63	0.96	596	594.93	0.37	595	594.2	0.48
	50	rnd	596	591.63	2.83	596	591.83	2.59	596	593.2	2.54	596	592.03	2.43
	20	rnd	594	591.13	2.34	595	594.73	0.45	595	595	0	595	594.37	0.56
		2op	594	591.13	2.34	595	594.73	0.45	595	595	0	595	594.37	0.56
	50	rnd	596	591.63	2.83	596	591.83	2.59	596	593.2	2.54	596	592.03	2.43

Table A.1903: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	591.53	2.81	596	594.23	1.36	596	593.93	1.86	595	590.6	2.84
		2op	596	591.17	2.48	596	594.77	0.68	596	594.23	1.14	594	589.17	0.91
	50	rnd	596	591.77	2.86	596	594.8	0.89	596	594.63	1.07	595	591.27	2.75
51	20	rnd	596	593	2.59	596	595.23	0.9	596	594.87	0.94	595	589.93	2.13
		2op	596	593	2.59	596	595.23	0.9	596	594.87	0.94	595	589.93	2.13
	50	rnd	596	592.2	2.98	596	594.33	1.3	596	595.3	0.75	595	593.33	1.49
	20	rnd	595	592.97	2.27	596	595.03	0.49	596	595.33	0.48	596	595.1	0.31
		2op	595	592.97	2.27	596	595.03	0.49	596	595.33	0.48	596	595.1	0.31
	50	rnd	596	592.97	1.83	596	595.13	0.78	596	595.07	0.91	596	593.73	1.76
	20	rnd	596	593.77	1.76	596	595.33	0.48	596	595.37	0.49	596	594.73	0.64
		2op	596	593.77	1.76	596	595.33	0.48	596	595.37	0.49	596	594.73	0.64
	50	rnd	596	593.77	1.76	596	595.33	0.48	596	595.37	0.49	596	594.73	0.64

Table A.1904: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.2	3.23	596	593.3	2.48	595	592.5	2.27	596	592.2	2.68
		2op	594	591.13	2.18	595	594.9	0.4	595	594.27	0.45	594	593.5	1.14
	50	rnd	596	591.17	3.36	596	593.2	2.37	596	592.53	2.42	596	592	2.36
51	20	rnd	594	591.23	2.4	596	595.03	0.18	595	594.9	0.31	595	594	0.26
		2op	595	590.97	3.46	596	591.93	3.14	596	593.53	2.24	595	592.67	1.99
	50	rnd	594	590.97	2.31	595	594.77	0.43	595	594.9	0.31	595	594.27	0.45
	20	rnd	596	591.43	3.29	596	591.67	2.96	596	592.3	2.37	596	592.47	3.01
		2op	594	591.17	2.41	595	594.47	0.51	595	595	0	595	594.17	0.46

Table A.1905: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	593.17	2	596	594.7	1.12	595	591.23	2.86	595	589.03	3.42
		2op	596	594.47	0.78	596	595.43	0.5	594	589.17	0.91	589	589	0
	50	rnd	595	592.53	1.78	596	594.47	1.14	595	591.03	3	595	588.7	3.65
51	20	rnd	596	594.07	1.55	596	595.13	0.43	594	589.6	1.5	589	589	0
		2op	596	593.3	1.93	596	594.57	1.19	596	593.57	1.94	596	592	2.15
	50	rnd	595	594.2	0.41	596	595.1	0.31	595	594.67	0.48	595	591.83	2.44
	20	rnd	596	593	1.44	596	594.33	1.35	596	593	2.03	595	589.17	3.65
		2op	596	594.87	0.51	596	595.2	0.48	595	594	0.98	592	589.1	0.55

Table A.1906: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.17	2.78	596	592.67	1.97	596	591.1	2.93	595	589.97	4.09
		2op	594	593.07	1.8	595	594.1	0.31	594	590.4	2.03	589	589	0
	50	rnd	596	592.53	1.93	596	592.07	3.03	596	592.03	2.54	595	589.43	3.65
51	20	rnd	594	593.1	1.6	595	594.13	0.35	594	593.43	1.19	592	589.17	0.65
		2op	596	591.2	2.86	595	591	2.42	596	592.23	2.57	595	589.97	2.97
	50	rnd	595	593.6	1.16	594	594	0	595	594.07	0.25	594	589.33	1.27
	20	rnd	596	592.57	2.5	596	592.13	2.43	596	591.9	2.86	595	589.37	4
		2op	595	593.53	1.36	594	594	0	595	594.13	0.35	594	589.6	1.45

Table A.1907: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	772.5	2.69	777	775.43	1.14	777	774.57	2.34	776	771.03	5.35
		2op	775	768.27	3.68	777	774.73	2.2	777	773.53	1.98	770	765.23	0.97
	50	rnd	777	773.23	2.6	777	775.63	1.16	777	775.63	1.35	777	771.13	3.28
51	20	2op	775	770.47	3.68	777	775.67	1.47	777	776	1.36	770	766.57	2.01
		rnd	777	772.93	3.34	777	774.23	2.27	777	774.93	1.2	777	773.47	2.57
	50	2op	775	768.27	2.53	777	773.53	1.94	777	773.93	1.51	775	772.23	1.72
	20	rnd	777	773.63	2.65	777	775.2	1.19	777	775.57	1.33	777	774.77	1.7
		2op	775	770.23	2.56	777	775.37	1.45	777	775.8	1.4	776	772.53	1.66
	50	rnd	777	773.63	2.65	777	775.2	1.19	777	775.57	1.33	777	774.77	1.7

Table A.1908: f_{25_400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	767.6	7	777	774.27	2.18	777	773.63	2.16	777	770.93	5.52
		2op	770	766.8	2.17	777	770	1.46	770	769.7	0.47	774	769.9	0.88
	50	rnd	777	768.43	5.41	777	772.1	2.78	777	773.87	2.42	777	771.47	5.85
51	20	2op	770	765.73	1.6	770	769.87	0.35	774	770	0.95	770	769.6	0.5
		rnd	775	768.1	6.46	777	771.43	5.88	777	773.47	1.93	777	770.47	7.87
	50	2op	770	767.5	2.37	770	769.93	0.25	772	769.9	0.71	772	769.9	0.71
	20	rnd	775	769.9	4.82	777	772.1	3.45	777	772.2	3.11	777	773.03	3.19
		2op	770	766.3	2	770	769.73	0.45	770	769.73	0.45	770	769.73	0.45
	50	rnd	775	769.9	4.82	777	772.1	3.45	777	772.2	3.11	777	773.03	3.19

Table A.1909: f_{25_400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.97	2.71	777	775.07	1.41	777	774.8	1.24	777	769.8	4.11
		2op	775	769.07	3.57	777	774.83	1.91	777	773.07	1.95	770	765.43	1.3
	50	rnd	777	772.97	2.74	777	775.37	1.27	777	775.1	1.24	775	771	3.11
51	20	2op	777	770.27	3.39	777	775.73	1.34	777	775.63	1.25	770	765.87	1.61
		rnd	777	772.27	2.96	777	774.6	1.63	777	775.2	1.06	777	774.17	2.1
	50	2op	775	768.53	2.37	777	773.67	1.58	777	774.3	1.58	776	772.67	1.42
	20	rnd	777	773.83	1.68	777	775.33	1.18	777	776.13	0.86	777	774.1	2.26
		2op	776	770.53	2.75	777	774.77	1.5	777	775.43	1.65	777	773.73	2.1
	50	rnd	777	773.83	1.68	777	775.33	1.18	777	776.13	0.86	777	774.1	2.26

Table A.1910: f_{25_400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	767.57	7.21	777	773.67	2.77	777	773.1	2.22	777	772.5	3.09
		2op	770	766.33	2.19	770	769.63	0.96	774	769.9	0.88	770	769.6	0.81
	50	rnd	777	768.53	8.59	777	770.8	8.18	777	773.67	2.78	777	770.7	6.07
51	20	rnd	770	765.87	1.7	770	769.67	0.48	772	770	0.64	770	769.77	0.43
		2op	777	766.4	9.56	777	770.27	6.05	777	772.7	2.56	777	772.87	2.74
	50	rnd	770	766.43	1.98	770	769.87	0.35	774	770	0.95	770	769.8	0.41
	20	rnd	775	768.57	5.65	777	770.2	5.99	777	772.4	3.35	777	773.47	3.44
		2op	770	766.3	1.99	770	769.7	0.47	770	769.7	0.47	770	769.77	0.43

Table A.1911: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	771	3.25	777	775.2	1	777	770.97	3.77	775	766.7	9.4
		2op	775	769.47	2.26	777	774.23	1.57	770	765.33	1.27	765	765	0
	50	rnd	777	772.67	2.51	777	775.73	0.94	777	770.97	4.19	776	767.27	6.55
51	20	rnd	777	771.6	2.76	777	774.63	1.65	775	766.03	2.31	765	765	0
		2op	777	772.47	2.4	777	774.13	2.1	777	773.4	2.3	777	771.37	3.21
	50	rnd	772	769.57	1.17	776	772.67	1.18	774	771.63	1.54	770	767.67	2.17
	20	rnd	777	774.13	2.01	777	774.67	1.63	777	774.13	2.58	776	769.23	4.76
		2op	777	771.07	2.03	777	773.1	1.52	777	772.23	2.33	770	765.17	0.91

Table A.1912: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	770.5	4.8	777	771.7	3.45	777	771.4	3.35	777	769.13	5.63
		2op	770	768.07	1.98	770	769.83	0.38	772	767.17	2.36	765	765	0
	50	rnd	777	768.6	6.63	777	772.23	2.51	777	771.47	3.75	777	770.23	3.96
51	20	rnd	770	768.73	1.78	770	769.8	0.41	770	769.63	0.81	770	765.33	1.27
		2op	775	770.57	5.73	777	770.1	7.19	777	772.57	3.27	777	771.27	3.68
	50	rnd	770	769.1	1.18	770	769.8	0.41	770	769.7	0.47	770	766.13	1.76
	20	rnd	775	767.87	8.27	777	771.73	2.8	777	771.53	3.09	777	771.27	4.46
		2op	770	769.43	0.5	770	769.8	0.61	770	769.87	0.35	770	766.1	1.9

Table A.1913: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.17	3.51	921	917.9	2.07	921	917.4	2.13	919	913.57	3.4
		2op	919	912.8	4.44	921	919	1.62	921	918.13	1.93	918	910	4.17
	50	rnd	921	916	2.57	921	918.57	1.76	921	918.87	1.76	921	913.87	3.52
		2op	921	914.37	3.99	921	919.2	1.65	921	919.23	1.76	919	913.73	3.82
51	20	rnd	921	914.73	3.28	921	917.13	2.53	921	918.3	2.23	921	916.6	2.91
		2op	916	913.93	2.65	921	917.77	1.81	921	918.3	1.68	918	916.13	0.78
	50	rnd	921	915.27	2.69	921	917.7	2	921	918.03	1.92	921	915.77	3.41
		2op	921	915.47	2.56	921	920.03	1.61	921	919.67	1.49	921	916.83	1.6

Table A.1914: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	915.3	2.56	921	915.3	3.2	921	916.23	3.02	921	916.43	1.96
		2op	916	911.83	3.82	918	915.93	0.83	918	916.07	0.37	916	915.9	0.55
	50	rnd	919	913.43	5.08	921	915.47	2.73	921	916	2.49	921	915.9	2.88
51	20	rnd	916	912.47	4.31	916	915.97	0.18	921	916.3	1.02	916	915.97	0.18
		2op	919	913.87	5.47	921	916.6	2.65	921	915.83	2.88	921	915.3	3.22
	50	rnd	916	912.2	4.33	916	916	0	918	916.07	0.37	916	916	0
	20	rnd	921	914.63	3.49	919	915.13	2.62	921	915.27	2.57	921	916.4	2.62
		2op	916	912.67	3.88	916	916	0	916	916	0	916	916	0
	50	rnd	921	914.63	3.49	919	915.13	2.62	921	915.27	2.57	921	916.4	2.62
	2op	916	912.67	3.88	916	916	916	0	916	916	0	916	916	0

Table A.1915: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.67	3.86	921	918.07	1.66	921	917.2	2.5	919	913.4	3
		2op	919	913.03	3.77	921	918.57	1.98	921	917.43	1.79	921	909.13	4.69
	50	rnd	921	914.77	2.88	921	917.93	2.08	921	918.7	1.91	919	915.5	3.18
		2op	921	915.07	3.9	921	919.2	1.67	921	919.27	1.7	921	912.13	5
51	20	rnd	919	914.93	2.2	921	917.17	2.38	921	917.63	1.97	921	917.17	2.65
		2op	918	914.7	2.83	921	917.5	1.76	921	919.1	1.83	921	917.03	1.59
	50	rnd	921	915.7	3.02	921	917.6	1.77	921	918.7	1.21	921	916.53	2.54
		2op	919	915.4	1.79	921	919.13	1.68	921	919.67	1.45	921	916.6	1.4

Table A.1916: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	913.93	3.36	921	916.23	2.92	921	916.53	2.43	919	915	2.83
		2op	916	911.93	4.16	918	916.13	0.51	918	916.13	0.51	916	916	0
	50	rnd	919	912.77	5.65	919	914.5	3.19	921	915.97	2.58	919	916.33	2.28
		2op	916	911.97	4.32	916	915.97	0.18	921	916.7	1.58	916	915.83	0.91
51	20	rnd	919	914.07	4.37	921	915.6	3.54	921	916.07	2.5	921	915.8	3.42
		2op	916	912.3	4.02	916	916	0	916	916	0	916	916	0
	50	rnd	919	912.9	3.52	921	915.53	2.96	919	915.67	2.47	921	916.3	3.55
		2op	916	911.2	3.87	916	916	0	916	916	0	916	916	0

Table A.1917: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.93	3.32	921	918.23	1.96	921	911.93	2.92	918	910.83	4.74
		2op	919	915.53	1.78	921	918.53	1.93	918	908.77	4.18	906	906	0
	50	rnd	921	916.63	2.62	921	918.9	1.47	919	913.77	3.41	918	912.43	3.65
		2op	919	915.77	1.57	921	918.3	1.62	921	909.23	4.38	906	906	0
51	20	rnd	921	916.4	2.67	921	917.73	2.7	921	917.5	2.24	921	915	2.89
		2op	916	915.83	0.91	921	916.33	0.96	919	916.7	0.99	919	915.53	2.75
	50	rnd	921	917.23	3.47	921	917.67	2.12	921	916.5	2.46	921	913.67	3.29
		2op	916	915.97	0.18	921	916.83	1.49	919	916.5	1.31	919	907.67	3.98

Table A.1918: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915	3.13	921	916.1	2.58	921	915.1	3.09	921	913.03	3.93
		2op	916	915.67	1.27	916	916	0	919	916.37	1.75	919	907.23	3.07
	50	rnd	921	914.5	3.65	921	915.47	2.6	921	915.87	2.86	919	913.93	3.67
		2op	916	915.83	0.91	916	916	0	916	916	0	919	907.43	2.92
51	20	rnd	919	914.87	3.3	921	915.7	3.3	919	915.93	2.91	921	913.03	4.74
		2op	916	916	0	916	916	0	916	916	0	919	912.63	4.65
	50	rnd	919	915.13	3.37	921	916.3	2.76	919	915.13	2.78	919	914.43	3.36
		2op	916	915.87	0.73	916	916	0	916	916	0	919	911.6	3.43

Table A.1919: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1577	1561.03	8.27	1572	1559.67	7.57	1572	1557.87	10.34	1573	1556.77	11.97
		2op	1553	1553	0	1553	1553	0	1553	1553	0	1553	1553	0
	50	rnd	1572	1558.97	9.22	1574	1560.2	6.89	1575	1560.03	8.06	1568	1553.8	12.88
51	20	rnd	1568	1553.87	3.34	1570	1553.57	3.1	1553	1553	0	1553	1553	0
		2op	1571	1559.67	10.8	1572	1559.37	8.34	1573	1560.2	10.75	1570	1553.83	11.19
	50	rnd	1562	1554.23	2.7	1563	1554.47	2.89	1572	1555.1	4.25	1553	1553	0
	20	rnd	1574	1558.83	8.53	1581	1562.63	8.24	1577	1559.47	7.09	1573	1555.77	9.33
		2op	1566	1555.2	4.07	1562	1554	2.36	1569	1555.57	4.28	1553	1553	0

Table A.1920: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1557.67	9.28	1577	1559.47	10.83	1572	1556.97	11.32	1577	1553.13	14.23
		2op	1567	1554.77	2.82	1571	1561.9	5.42	1557	1553.17	0.75	1553	1553	0
	50	rnd	1573	1560.17	6.98	1576	1563.03	6.87	1572	1554.37	10.78	1573	1552.8	14.22
51	20	rnd	1558	1553.7	1.21	1577	1568.63	3.17	1569	1557.37	4.29	1555	1553.07	0.37
		2op	1578	1558.73	8.99	1577	1559.93	10.07	1581	1561.8	9.9	1575	1558.8	9.94
	50	rnd	1558	1553.9	1.6	1572	1566.4	4.3	1572	1560.77	5.75	1553	1553	0
	20	rnd	1574	1556.4	10.6	1577	1561.73	9.89	1577	1563.7	8.42	1571	1556.9	9.73
		2op	1558	1554.5	1.72	1573	1565.8	5.22	1572	1566.67	3.91	1557	1553.27	0.87

Table A.1921: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1572	1557.03	9.7	1573	1558.37	7.81	1573	1555.9	9.26	1580	1557.3	10.89
		2op	1570	1553.57	3.1	1555	1553.07	0.37	1553	1553	0	1553	1553	0
	50	rnd	1575	1558.9	8.6	1576	1559.27	8.28	1574	1558.1	10.57	1574	1553.93	10.01
51	20	rnd	1570	1554.1	3.63	1553	1553	0	1558	1553.17	0.91	1553	1553	0
		2op	1577	1559.57	8.75	1580	1559.4	8.74	1574	1559.43	8.99	1573	1555.37	10.5
	50	rnd	1563	1555.23	3.63	1563	1554.13	2.7	1571	1555.6	5	1553	1553	0
	20	rnd	1580	1562.3	7.8	1579	1561.5	8.42	1579	1559.97	8.03	1573	1555.77	10.71
		2op	1569	1554.23	3.91	1564	1554.2	2.85	1572	1554.33	4.03	1553	1553	0

Table A.1922: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1557.13	10.71	1577	1560	9.4	1576	1557.2	11.07	1574	1552.93	13.69
		2op	1558	1554	1.64	1571	1561.83	5.13	1562	1553.8	1.95	1553	1553	0
	50	rnd	1575	1559.1	7.81	1574	1561.13	6.68	1576	1561.63	7.44	1571	1553.97	12.12
51	20	rnd	1558	1553.87	1.63	1572	1568.07	3.26	1563	1555.1	2.48	1553	1553	0
		2op	1577	1560.13	11.13	1574	1558.5	11.28	1574	1558.17	10.42	1570	1552.27	13.8
	50	rnd	1564	1554.23	2.37	1573	1566.57	4.6	1569	1561.13	4.58	1553	1553	0
	20	rnd	1572	1559.7	7.27	1572	1560.9	9.86	1572	1557.93	8.84	1578	1557.8	12.03
		2op	1558	1554.23	1.65	1572	1567.6	3.39	1572	1566.87	4.04	1563	1553.6	2.04

Table A.1923: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1580	1559.4	9.6	1581	1559.93	9.31	1573	1553.13	14.47	1570	1554.07	11.52
		2op	1568	1555.57	4.92	1571	1555.9	5.33	1553	1553	0	1553	1553	0
	50	rnd	1574	1560.3	7.51	1572	1559.57	7.6	1578	1556.23	8.91	1570	1558.23	10.79
51	20	rnd	1564	1554.2	2.55	1567	1553.8	2.99	1553	1553	0	1553	1553	0
		2op	1579	1560.67	8.31	1576	1562.8	6.67	1575	1558.5	9.49	1574	1554.6	10.49
	50	rnd	1564	1557.9	3.21	1571	1568.2	2.83	1563	1553.9	2.32	1553	1553	0
	20	rnd	1572	1560.27	7.46	1573	1560.57	7.41	1576	1556.27	8.9	1577	1559.17	9.12
		2op	1571	1560.6	6.23	1571	1560.63	5.92	1553	1553	0	1553	1553	0

Table A.1924: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1572	1560.43	7.25	1576	1558.87	9.2	1568	1552.5	16.38	1571	1551.67	14.01
		2op	1558	1554.13	1.43	1558	1554.63	1.5	1563	1553.33	1.83	1553	1553	0
	50	rnd	1570	1557.9	7.95	1578	1560.67	8.11	1572	1558.87	9.63	1577	1555.4	11.85
51	20	rnd	1558	1555.3	1.88	1560	1555.23	2.25	1555	1553.07	0.37	1553	1553	0
		2op	1574	1559.7	10.87	1574	1561.6	8.27	1570	1556.1	10.45	1568	1552.77	10.66
	50	rnd	1564	1554.97	2.36	1564	1556.57	2.71	1557	1553.27	0.87	1553	1553	0
	20	rnd	1574	1561.97	7.21	1572	1560.7	5.9	1571	1557.83	11.21	1573	1556.43	10.88
		2op	1566	1556.63	3.12	1564	1556.7	2.84	1558	1553.37	1.19	1553	1553	0

Table A.1925: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1553.3	10.49	1569	1555.2	7.87	1566	1550.1	12.51	1565	1548.37	11.71
		2op	1563	1536	10.72	1564	1536.23	10.46	1531	1531	0	1531	1531	0
	50	rnd	1571	1553.23	9.31	1570	1555.2	7.2	1564	1553.77	8.77	1564	1551.73	9.46
		2op	1558	1534.23	8.46	1563	1539.47	12.56	1561	1533.37	7.37	1531	1531	0
51	20	rnd	1567	1554.43	11.13	1571	1556.53	8.48	1570	1556.87	7.74	1570	1550.67	10.04
		2op	1561	1540.27	12.13	1565	1546.6	12.47	1567	1548.1	13.72	1531	1531	0
	50	rnd	1570	1553.7	7.82	1567	1556.1	7.29	1568	1559.53	5.84	1567	1550.57	11.79
		2op	1566	1541.63	13.81	1565	1550.07	13.31	1569	1553.7	11.62	1550	1531.63	3.47

Table A.1926: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1544.67	15.35	1570	1557.4	8.19	1566	1550.53	11.41	1568	1548.2	9.73
		2op	1531	1531	0	1567	1538.6	12.1	1531	1531	0	1531	1531	0
	50	rnd	1565	1545.8	11.72	1569	1558.2	6.7	1569	1557.83	10.45	1564	1549.7	10.34
		2op	1531	1531	0	1568	1553.43	12.33	1547	1531.87	3.3	1531	1531	0
51	20	rnd	1565	1545.5	12.16	1572	1556.83	6.86	1569	1558	6.95	1569	1553.67	10.59
		2op	1531	1531	0	1566	1548.6	12.85	1565	1537.07	11.24	1531	1531	0
	50	rnd	1564	1545.87	13.71	1569	1552.93	7.83	1567	1555.6	7.47	1568	1552.7	12.44
		2op	1531	1531	0	1566	1537.03	9.92	1567	1544.37	14.77	1531	1531	0

Table A.1927: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1551.43	10.42	1569	1557.03	9.14	1569	1549.57	11.03	1566	1545.67	11.58
		2op	1557	1534.33	8.67	1562	1536.93	11.18	1531	1531	0	1531	1531	0
	50	rnd	1566	1554.67	9.54	1570	1554	7.47	1568	1553	8.94	1567	1546.6	13.18
		2op	1560	1533.47	7.6	1562	1536.3	10.46	1531	1531	0	1531	1531	0
51	20	rnd	1565	1554	7.17	1568	1551.93	9.61	1569	1555.13	6.66	1564	1552.73	7.95
		2op	1564	1537.77	11.68	1566	1544.83	12.58	1566	1541.87	14.07	1531	1531	0
	50	rnd	1565	1553.83	8.53	1568	1555.4	9.22	1568	1557.77	7.22	1566	1554.23	12.49
		2op	1563	1541.3	13.91	1569	1548.67	14.46	1568	1553.53	11.08	1531	1531	0

Table A.1928: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1545.17	9.76	1569	1556.7	9.48	1565	1552.07	7.69	1567	1550.73	10.18
		2op	1531	1531	0	1565	1539.47	13.36	1531	1531	0	1531	1531	0
	50	rnd	1561	1545.97	11.18	1568	1558.03	6.95	1572	1554.03	10.88	1569	1551.57	10.49
51	20	rnd	1531	1531	0	1567	1553.87	11.9	1563	1532.07	5.84	1531	1531	0
		2op	1569	1542.73	13.84	1565	1555.23	7.69	1569	1555.1	8.94	1568	1550.2	11.26
	50	rnd	1531	1531	0	1565	1549.63	12.78	1564	1535.77	9.43	1531	1531	0
	20	rnd	1566	1549.43	11.42	1567	1552.47	10.24	1570	1556.17	9.57	1562	1549.13	8.37
		2op	1531	1531	0	1565	1542.9	12.64	1566	1545.33	13.51	1531	1531	0

Table A.1929: $f_{50.412}$: transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1554.63	10.95	1570	1559.47	4.78	1564	1547.63	10.01	1570	1550.9	10.4
		2op	1569	1538.93	12.78	1573	1552.97	12.69	1531	1531	0	1531	1531	0
	50	rnd	1571	1554.37	8.16	1570	1557.37	8.26	1566	1548	13.9	1560	1545.33	11.21
51	20	rnd	1570	1540.7	13.78	1569	1544.73	14.92	1531	1531	0	1531	1531	0
		2op	1572	1557.8	9.2	1572	1561.4	6.68	1565	1552.5	9.31	1567	1550.73	9.67
	50	rnd	1564	1554.87	8.5	1565	1558.03	3.07	1561	1533.9	8.85	1531	1531	0
	20	rnd	1569	1557.03	8.12	1570	1559.07	6.72	1569	1554.5	10.94	1571	1551.27	11.24
		2op	1566	1554.9	10.32	1570	1557.57	6.93	1531	1531	0	1531	1531	0

Table A.1930: $f_{50.412}$: basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1546.4	9.84	1569	1554.1	8.42	1569	1548.63	9.89	1566	1546.2	13.04
		2op	1531	1531	0	1540	1531.3	1.64	1531	1531	0	1531	1531	0
	50	rnd	1565	1549.9	8.28	1569	1552.4	12.7	1563	1550.03	8.29	1569	1546.7	11.46
51	20	rnd	1531	1531	0	1540	1531.3	1.64	1531	1531	0	1531	1531	0
		2op	1565	1551.47	11.95	1569	1553.7	8.26	1569	1552.77	10.87	1570	1551.2	12.33
	50	rnd	1531	1531	0	1540	1531.3	1.64	1531	1531	0	1531	1531	0
	20	rnd	1567	1552.6	10.1	1565	1551	7.64	1568	1551.47	12.31	1565	1544.83	12.66
		2op	1531	1531	0	1545	1532.67	3.88	1531	1531	0	1531	1531	0

Table A.1931: $f_{50.412}$: transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1565	1548.8	9.33	1564	1553.57	6.07	1568	1547.3	9.19	1562	1547.33	8.82
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1563	1549.9	8.28	1565	1550.5	6.92	1566	1550.3	8.38	1561	1548.5	8.73
51	20	rnd	1562	1550.57	8.11	1566	1551.1	9.66	1565	1552.23	7.73	1562	1549.47	9.47
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1561	1549.37	8.32	1566	1550.6	7.28	1563	1553.3	6.73	1564	1548.3	9.23
		2op	1550	1548.07	0.37	1550	1548.13	0.51	1550	1548.07	0.37	1548	1548	0

Table A.1932: $f_{50.498}$: basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1559	1548.17	8.53	1566	1553.83	6.32	1567	1549.63	6.7	1565	1548.67	7.16
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1562	1548.73	9.49	1567	1551.97	7.16	1566	1552.03	9.02	1561	1551.47	6.48
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1565	1547.1	8.26	1565	1551.47	9.81	1567	1551.9	8.95	1559	1548.73	7.14
	50	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1565	1549.13	9.14	1565	1552.57	6.4	1568	1550.73	7.93	1566	1550.33	8.95
			1548	1548	0	1548	1548	0	1550	1548.07	0.37	1548	1548	0

Table A.1933: $f_{50.498}$: transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1549.67	10.98	1564	1549.23	9.9	1563	1549.9	9.51	1563	1547.27	8.66
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1565	1546.3	9.63	1563	1550.93	7.16	1560	1548.83	8.52	1563	1546.9	10.66
51	20	rnd	1548	1548	0	1556	1548.27	1.46	1548	1548	0	1548	1548	0
		2op	1562	1549.4	10.97	1565	1552	7.48	1565	1547.6	9.05	1564	1548.43	8.79
	50	rnd	1548	1548	0	1548	1548	0	1550	1548.07	0.37	1548	1548	0
		2op	1563	1550.17	7.33	1568	1551.2	9.09	1565	1552.53	10.05	1561	1549.77	7.32
			1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0

Table A.1934: $f_{50.498}$: basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1568	1547.63	10.26	1566	1551.47	8.35	1567	1548.8	10.67	1567	1551	8.52
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1558	1547.47	7.12	1565	1550.87	7.34	1565	1549.13	10.25	1564	1550.43	9.27
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1566	1547.7	8.28	1566	1550.6	9.46	1568	1551.4	8.58	1565	1545.17	12.6
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1561	1548	8.32	1566	1552.5	6.04	1566	1551.7	6.77	1563	1550.87	7.72
		2op	1548	1548	0	1548	1548	0	1550	1548.13	0.51	1548	1548	0

Table A.1935: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1553.57	8.31	1565	1553.77	7.49	1568	1547.73	10.51	1565	1548.47	10.21
		2op	1548	1548	0	1550	1548.07	0.37	1548	1548	0	1548	1548	0
	50	rnd	1567	1548.8	7.49	1564	1552.67	6.17	1566	1547.43	10.62	1562	1547.4	9.25
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1565	1551.9	7.88	1564	1557.3	6.28	1565	1548.27	10.42	1564	1547.47	11.39
		2op	1550	1548.07	0.37	1563	1554.33	7.11	1548	1548	0	1548	1548	0
	50	rnd	1567	1549.57	7.93	1570	1553.17	8.24	1565	1548.33	8.47	1562	1547.57	9.65
		2op	1550	1548.13	0.51	1550	1548.13	0.51	1548	1548	0	1548	1548	0

Table A.1936: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1549.57	7.67	1561	1548.4	8.53	1560	1543.97	10.99	1566	1548.53	8.9
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1564	1548.73	7.89	1566	1552.5	7.89	1565	1549.93	9.91	1564	1546.97	10.68
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1561	1548.33	6.43	1567	1552.8	8.68	1566	1548.93	7.96	1565	1548.07	10.01
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1567	1550.93	7.92	1563	1547.93	9.48	1566	1549.3	8.74	1568	1546.17	10.18
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0

Table A.1937: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2775	2745.43	12.37	2771	2746.93	12.52	2771	2742.87	15.5	2757	2740.63	10.76
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2759	2741.7	10.47	2758	2742.2	12.08	2764	2741.27	12.31	2765	2742.07	13.61
51	20	rnd	2768	2741.37	12.51	2762	2745.47	9.22	2767	2740.8	14.58	2764	2736.3	14.14
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2771	2747.43	11.83	2764	2745.03	12.43	2763	2741.27	9.71	2763	2743.03	9.73
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1938: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2765	2741.47	12.18	2780	2744.7	13.97	2758	2736.83	12.41	2767	2735.77	15.51
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2763	2741.9	12.86	2772	2742.9	12.34	2771	2746.7	13.43	2763	2733.1	12.9
51	20	rnd	2767	2741.7	15.53	2771	2748	11.67	2764	2738.07	15.62	2773	2738.73	17.81
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2762	2736.33	17.79	2775	2746.93	15.28	2767	2743.07	12.29	2772	2741.27	15
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1939: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2769	2744.13	18.01	2770	2743.97	13.74	2766	2741.4	13.77	2766	2746.3	10.41
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2746.87	12.22	2768	2741.8	12.79	2765	2742.2	13.94	2763	2743.27	12.24
51	20	rnd	2764	2739.07	13.93	2774	2743.77	14.69	2763	2742.63	9.87	2767	2740.3	14.69
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2742.37	11.93	2770	2745.67	10.48	2760	2741.83	9.08	2762	2740.23	16.01
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1940: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2773	2740.97	17.35	2764	2742.07	15.09	2761	2741.47	11.95	2766	2741.37	19.15
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2778	2743.17	12.23	2768	2743.53	16.69	2761	2742.83	11.19	2768	2740.03	15.66
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2770	2739.23	14.03	2762	2744.4	13.58	2759	2737.03	15.24	2770	2739.6	18.61
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2775	2739.67	12.77	2773	2744.97	16.18	2767	2743	13.35	2759	2741.6	12.01
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1941: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2766	2745.63	12.84	2771	2742.47	13.99	2760	2740.33	12.4	2765	2738.1	14.19
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2763	2741.43	12.74	2766	2742.23	14.44	2761	2743.03	10.45	2763	2736.83	13.97
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2769	2746.37	14.21	2766	2747.4	10.26	2766	2744.27	12.45	2768	2743.83	15.24
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2769	2748.07	12.73	2763	2743.77	11.5	2764	2744.3	12.49	2761	2739.5	12.81
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1942: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2765	2741.93	14.41	2767	2744.23	14.44	2767	2744.6	14.09	2770	2741.4	13.37
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2741.03	11.98	2769	2745.37	12.29	2772	2742.53	15.67	2763	2743.23	11.83
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
51	20	rnd	2767	2739.7	15.81	2765	2741.37	10.46	2768	2738.93	17.31	2773	2740.37	14.28
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2764	2739.6	18.15	2759	2740.8	11.35	2769	2741.07	15.78	2773	2742.83	13.22
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.1943: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2810.7	14.63	2843	2814.37	14.41	2837	2814.13	15.34	2839	2813.9	12.79
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2837	2815.63	11.82	2838	2817.2	9.24	2840	2812.57	12.91	2835	2811.07	12.23
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2831	2813.33	12.46	2835	2818.8	12.93	2835	2810.7	18.77	2844	2811.87	12.11
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2837	2813.9	10.56	2838	2813	14.67	2832	2814.43	10.66	2842	2815.47	13.99
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.1944: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2834	2810.57	13.81	2842	2815.97	13.68	2845	2809.4	16.84	2835	2808.7	12.44
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2837	2814.17	15.8	2831	2814.93	10.64	2836	2810.6	16.44	2837	2805.97	14.87
		2op	2804	2804	0	2810	2807.8	2.94	2810	2804.2	1.1	2804	2804	0
51	20	rnd	2834	2810.23	14.95	2842	2817.63	9.61	2844	2814.87	13.07	2837	2809.1	16.26
		2op	2804	2804	0	2810	2807	3.05	2810	2804.6	1.83	2804	2804	0
	50	rnd	2827	2809.17	11.02	2837	2817.53	13.72	2834	2814.27	13.98	2829	2806.13	12.85
		2op	2804	2804	0	2810	2807.8	2.94	2810	2805.6	2.7	2804	2804	0

Table A.1945: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2836	2814.27	12.29	2837	2810.27	15.73	2838	2814.8	14.12	2837	2814.8	10.91
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2839	2815.5	12.86	2840	2817.27	10.52	2840	2814.5	14.17	2843	2812.33	11.7
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2837	2814.83	13.12	2848	2819.23	13.25	2836	2812.47	13.27	2833	2810.93	14.23
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2839	2812	15.11	2838	2815.6	14.18	2842	2815.5	12.56	2838	2812.47	17.08
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.1946: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2827	2813.33	10.91	2830	2813.7	10.82	2844	2811.73	17.61	2838	2809.8	16.1
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2835	2814.47	9.55	2829	2815.3	8.91	2846	2812.7	17.01	2845	2813.27	13.93
51	20	rnd	2833	2808.33	14.12	2836	2815.33	12.59	2838	2810.6	13.77	2838	2814.4	10.51
		2op	2804	2804	0	2810	2806.4	2.99	2810	2804.4	1.52	2804	2804	0
	50	rnd	2842	2810.33	13.3	2836	2815.67	10.55	2842	2816.67	14.25	2836	2813.47	11.78
	20	rnd	2833	2808.33	14.12	2836	2815.33	12.59	2838	2810.6	13.77	2838	2814.4	10.51
		2op	2804	2804	0	2810	2806.4	2.99	2810	2804.4	1.52	2804	2804	0
	50	rnd	2842	2810.33	13.3	2836	2815.67	10.55	2842	2816.67	14.25	2836	2813.47	11.78
	20	rnd	2833	2808.33	14.12	2836	2815.33	12.59	2838	2810.6	13.77	2838	2814.4	10.51
		2op	2804	2804	0	2810	2806.4	2.99	2810	2804.4	1.52	2804	2804	0
	50	rnd	2842	2810.33	13.3	2836	2815.67	10.55	2842	2816.67	14.25	2836	2813.47	11.78
	20	rnd	2833	2808.33	14.12	2836	2815.33	12.59	2838	2810.6	13.77	2838	2814.4	10.51
		2op	2804	2804	0	2810	2806.4	2.99	2810	2804.4	1.52	2804	2804	0
	50	rnd	2842	2810.33	13.3	2836	2815.67	10.55	2842	2816.67	14.25	2836	2813.47	11.78

Table A.1947: f_{100_415} : transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2815.5	13.96	2835	2810.17	13.51	2837	2811.47	13.81	2825	2805.8	13.12
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2841	2814.5	14.51	2842	2815.57	14.3	2835	2805.03	15.11	2835	2814.8	11.06
51	20	rnd	2835	2815.47	11.13	2838	2816.8	15.7	2835	2811.67	13.78	2842	2814.87	15.36
		2op	2804	2804	0	2810	2806	2.88	2804	2804	0	2804	2804	0
	50	rnd	2842	2817.2	13.78	2838	2817.8	12.26	2834	2813.77	12.71	2845	2811.83	16.74
	20	rnd	2835	2815.47	11.13	2838	2816.8	15.7	2835	2811.67	13.78	2842	2814.87	15.36
		2op	2804	2804	0	2810	2806	2.88	2804	2804	0	2804	2804	0
	50	rnd	2842	2817.2	13.78	2838	2817.8	12.26	2834	2813.77	12.71	2845	2811.83	16.74
	20	rnd	2835	2815.47	11.13	2838	2816.8	15.7	2835	2811.67	13.78	2842	2814.87	15.36
		2op	2804	2804	0	2810	2806	2.88	2804	2804	0	2804	2804	0
	50	rnd	2842	2817.2	13.78	2838	2817.8	12.26	2834	2813.77	12.71	2845	2811.83	16.74

Table A.1948: f_{100_415} : basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2837	2812	16.97	2836	2809.37	16.35	2833	2813.1	12.89	2833	2809.67	15.24
		2op	2804	2804	0	2810	2806	2.88	2804	2804	0	2804	2804	0
	50	rnd	2839	2811	15.2	2839	2814.37	12.6	2840	2811.47	11.83	2837	2811.77	12.66
51	20	rnd	2836	2812.73	13.05	2842	2813.13	12.03	2839	2810.57	17.3	2835	2810.37	13.57
		2op	2804	2804	0	2810	2806.4	2.99	2804	2804	0	2804	2804	0
	50	rnd	2836	2814.33	10.73	2838	2811.4	12.55	2836	2815.17	10.42	2847	2811.97	15.89
	20	rnd	2836	2814.33	10.73	2838	2811.4	12.55	2836	2815.17	10.42	2847	2811.97	15.89
		2op	2804	2804	0	2810	2806.6	3.02	2810	2804.2	1.1	2804	2804	0
	50	rnd	2836	2814.33	10.73	2838	2811.4	12.55	2836	2815.17	10.42	2847	2811.97	15.89

Table A.1949: f_{100_415} : transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2682.97	12.42	2718	2688.87	15.28	2705	2686.83	11.3	2709	2684.5	13.12
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2708	2685.5	12.61	2708	2685.87	13.31	2704	2681.97	13.66	2710	2683.67	13.6
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
51	20	rnd	2712	2683.77	13.71	2700	2686.17	9.48	2705	2685.6	14.7	2709	2683.37	10.8
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2711	2690.43	13.68	2713	2688.63	11.68	2707	2684.73	14.17	2699	2680.3	15.67
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0

Table A.1950: f_{100_512} : basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2709	2682.93	12.91	2710	2684.3	15.49	2714	2686.57	14.43	2702	2680.13	14.46
		2op	2700	2690.13	4.28	2698	2689.9	3.98	2687	2687	0	2687	2687	0
	50	rnd	2702	2683.7	13.32	2710	2688.57	15.55	2716	2683.37	11.39	2708	2687.77	11.23
		2op	2706	2690.87	5.26	2702	2696.03	3.01	2695	2687.27	1.46	2687	2687	0
51	20	rnd	2706	2683.5	12.08	2711	2688	15.42	2715	2688.3	14.34	2706	2684.3	10.92
		2op	2701	2691.5	4.47	2704	2695.07	4.08	2699	2689.97	4.41	2687	2687	0
	50	rnd	2708	2680.03	14.39	2722	2688.47	18.27	2710	2688.4	11.77	2710	2682.93	13.94
		2op	2698	2692.1	4	2702	2696.03	1.92	2698	2694.33	2.9	2687	2687	0

Table A.1951: f_{100_512} : transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2713	2686.87	13.88	2706	2689.07	11.16	2707	2688.2	9.3	2703	2685.03	13.53
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2702	2685.6	11.51	2712	2693.47	11	2703	2686.97	12.54	2709	2682.37	13.88
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
51	20	rnd	2709	2688	11.42	2708	2684.97	11.7	2709	2683.2	15.57	2717	2685.5	16.35
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2708	2683.97	11.42	2712	2688.8	13.32	2705	2682.83	11.9	2703	2684.17	16.39
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0

Table A.1952: f_{100_512} : basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2709	2680.17	12.93	2713	2685.37	15.17	2710	2684.07	12.28	2706	2684.17	14.9
		2op	2699	2690.37	4.11	2699	2690.17	4.41	2687	2687	0	2687	2687	0
	50	rnd	2703	2684.63	11.32	2709	2685.23	10.54	2718	2683.87	12.34	2709	2682.33	14.12
51	20	2op	2698	2690.83	4.26	2706	2695.5	3.8	2698	2687.37	2.01	2687	2687	0
		rnd	2704	2680.73	12.52	2708	2686.57	13.93	2704	2683.63	12.12	2698	2678.97	14.18
	50	2op	2700	2691	4.5	2700	2694.97	3.35	2704	2690.27	5.03	2687	2687	0
	20	rnd	2703	2679.7	14.12	2709	2690.17	13.31	2707	2688.07	12.37	2707	2687.33	12.29
		2op	2698	2691.87	4.1	2700	2696.17	1.49	2700	2693.83	4.2	2687	2687	0
	50	rnd	2703	2679.7	14.12	2709	2690.17	13.31	2707	2688.07	12.37	2707	2687.33	12.29
	50	2op	2698	2691.87	4.1	2700	2696.17	1.49	2700	2693.83	4.2	2687	2687	0

Table A.1953: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2707	2689.37	10.71	2714	2689.07	12.02	2710	2684.97	14.67	2701	2682.2	15.84
		2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
	50	rnd	2711	2688.4	13.69	2708	2684.6	15.89	2703	2684.63	13.24	2711	2685.67	11.35
51	20	2op	2687	2687	0	2687	2687	0	2687	2687	0	2687	2687	0
		rnd	2706	2685.93	12.66	2708	2690.2	8.49	2711	2686.83	15.97	2709	2683.83	12.16
	50	2op	2699	2690.53	4.55	2708	2693.9	6.18	2695	2687.27	1.46	2687	2687	0
	20	rnd	2709	2683.93	14.92	2702	2681.03	13.44	2710	2686.57	11.45	2713	2686.7	14.63
		2op	2696	2687.57	2.16	2696	2687.57	2.16	2687	2687	0	2687	2687	0
	50	rnd	2709	2683.93	14.92	2702	2681.03	13.44	2710	2686.57	11.45	2713	2686.7	14.63
	50	2op	2696	2687.57	2.16	2696	2687.57	2.16	2687	2687	0	2687	2687	0

Table A.1954: f_{100_512} : basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2705	2679.73	10.1	2708	2684.53	13.1	2707	2687.03	11.52	2711	2689.1	16.7
		2op	2700	2691.97	4.33	2700	2690.83	4.8	2687	2687	0	2687	2687	0
	50	rnd	2702	2683.87	10.24	2710	2685.77	13.59	2706	2686.33	13.65	2711	2686.7	13
51	20	2op	2700	2694.37	2.66	2698	2691.63	4.5	2695	2687.27	1.46	2687	2687	0
		rnd	2705	2680.83	14.38	2704	2680.67	14.8	2705	2688.73	9.21	2713	2684.53	12.4
	50	2op	2700	2693.63	3.92	2698	2694.7	2.45	2697	2687.53	2.1	2687	2687	0
	20	rnd	2699	2685.73	10.29	2708	2688.23	14.45	2715	2687.7	12.72	2716	2685.53	14.8
		2op	2696	2695.13	0.35	2699	2693.9	3.34	2695	2688	2.61	2687	2687	0
	50	rnd	2699	2685.73	10.29	2708	2688.23	14.45	2715	2687.7	12.72	2716	2685.53	14.8
	50	2op	2696	2695.13	0.35	2699	2693.9	3.34	2695	2688	2.61	2687	2687	0

Table A.1955: f_{100_512} : transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17882	17786.2	42.05	17841	17796.1	32.29	17871	17789.2	39.13	17863	17792.4	41.13
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17871	17807.37	32.64	17878	17798.63	36.52	17877	17803.53	41.03	17855	17782.07	37.76
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17857	17791.1	41.11	17876	17812.03	35.42	17834	17786.23	41.81	17848	17785.43	39.5
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17866	17801.43	38.79	17869	17792.57	39.73	17878	17799.2	47.72	17889	17802.93	49.79
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1956: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17870	17791.77	36.7	17886	17803	34.56	17887	17788.53	47.04	17845	17779.9	44.85
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17906	17800.47	45	17856	17799.73	35.11	17899	17799.47	35.64	17878	17785.33	46.37
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17899	17804	38.54	17871	17798.8	34.96	17866	17793.8	42.53	17860	17796.47	36.81
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17859	17792.93	35.71	17847	17781.93	38.19	17921	17808.7	37.78	17876	17791	48.27
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1957: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17844	17790.5	29.01	17910	17801.73	44	17880	17794.73	46.31	17887	17806.9	31.33
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17886	17803.37	36.65	17879	17804.57	36.42	17882	17815.67	30.07	17843	17789.63	32.32
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17925	17796.87	41.37	17868	17797	43.42	17887	17792.33	47.55	17868	17796.07	36.27
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17853	17796.07	33.06	17861	17801.5	33.06	17898	17808.4	30.79	17833	17792.77	34.09
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1958: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17880	17792.03	40.22	17880	17804.97	33.95	17886	17787.7	45.68	17882	17796.63	40.29
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17861	17800.23	33.65	17850	17798.53	31.82	17884	17790.37	44.28	17877	17796.9	45.64
51	20	rnd	17897	17797.2	39.64	17861	17796.23	35.58	17866	17793.8	41.1	17863	17800.83	36.76
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17921	17803.8	41.47	17876	17793.77	44.69	17866	17783	44.78	17893	17808.33	41.73
	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1959: $f_{508.354}$: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17879	17798.03	37.31	17899	17790.47	53.04	17880	17790.57	40.15	17866	17795.7	37.21
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17865	17800.23	28	17859	17809.8	30.08	17901	17814.67	40.25	17888	17806.53	43.87
51	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17865	17804.77	32.95	17862	17802.3	27.88	17849	17797	36.03	17906	17810.43	39.77
	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17836	17782.27	32.19	17874	17789.47	36.63	17853	17790.17	31.19	17867	17801.9	37.22
	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1960: $f_{508.354}$: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17853	17797.6	40.81	17877	17789.93	35.25	17843	17788.17	32.32	17862	17793.07	43.34
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17868	17797.97	45.17	17883	17806.77	36.28	17866	17800.07	29.95	17881	17793.03	46.05
51	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17841	17789.63	38.56	17834	17782.23	31.52	17904	17785.93	43.57	17883	17795.3	43.21
	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17899	17799	45.28	17851	17800.37	31.86	17861	17803.53	32.55	17872	17798.73	37.59
	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.1961: $f_{508.354}$: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22138	22071.3	45.43	22170	22064.8	43.43	22183	22056.63	48.21	22133	22060.53	36.71
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22167	22082.03	39.55	22143	22070.47	43.39	22161	22075.33	47.57	22170	22080.4	39.39
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22164	22082	51.82	22146	22066.33	34.85	22170	22065.7	44.12	22193	22066.6	54.18
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22137	22069.23	43.42	22143	22057.6	48.01	22139	22065.53	46.61	22202	22084.37	46.51
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1962: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22166	22068.7	38.72	22124	22045.63	51.44	22139	22066.67	39.99	22154	22049.23	46.84
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22137	22066.6	52.24	22180	22076.07	47.99	22141	22059.43	50.97	22129	22064.27	35.39
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22138	22068.4	38.27	22178	22072.13	52.6	22133	22064.53	40.4	22123	22064.33	41.55
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22175	22065.27	54.99	22162	22065.77	38.94	22146	22061.5	42.27	22171	22066.8	48.14
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1963: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22140	22059.03	36.75	22184	22082.97	46.58	22146	22057.5	46.54	22145	22065.43	42.4
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22141	22068.53	46.9	22145	22060.7	37.7	22155	22067.73	51.82	22161	22070.83	43.84
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22144	22071.83	43.05	22157	22073.23	43.72	22183	22055.93	44.98	22144	22067.37	43.53
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22120	22066.67	35.27	22136	22065.27	45.87	22143	22047	58.62	22155	22060.2	46.45
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1964: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22163	22078.77	47.16	22160	22080.27	45.12	22130	22050	42.62	22133	22053.47	42.87
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22162	22058.43	44.41	22134	22058.33	42.67	22148	22055.83	45.7	22135	22063.97	41.79
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22192	22068.07	47.16	22155	22073.33	51.26	22146	22065.43	42.14	22154	22061.8	50.3
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22148	22064.6	43.2	22160	22058.07	45.14	22168	22067.17	35.91	22168	22071.2	43.66
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1965: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22178	22084.53	48.81	22150	22075.37	52.84	22203	22078.03	50.14	22133	22049.13	43.7
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22163	22065.93	48.08	22153	22060.87	52.35	22130	22048.6	45.97	22128	22056.87	47.98
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22199	22068.6	47.82	22199	22068.6	47.82	22143	22067.33	44.74	22200	22068.97	60.78
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22155	22076.93	44.65	22155	22078.97	42.31	22154	22072.8	43.81	22166	22062.43	45.63
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1966: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22164	22060.73	53.31	22155	22063.5	43.82	22137	22065.53	38.39	22220	22069	53.22
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22136	22061.77	35.82	22128	22063.03	44.63	22176	22077.53	40.82	22157	22060.33	47.29
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22142	22076.33	44.3	22158	22068.6	49.43	22182	22087.17	43.58	22146	22066.73	47.13
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22128	22047.33	53.24	22169	22065.13	39.38	22176	22065.6	46.62	22148	22060.73	48.87
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.1967: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24737	24662.73	44.97	24747	24639.5	56.87	24752	24672.57	49.29	24776	24660.43	50.57
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24759	24667.47	51.05	24771	24656.47	51.22	24728	24664.8	39.58	24747	24655.83	41.04
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24782	24673.73	50.69	24791	24669.97	50.42	24744	24664.77	52.91	24746	24655.37	44.26
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24777	24664.43	53.11	24746	24674.87	36.95	24795	24653.17	57.01	24746	24653.8	46.42
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1968: f_{737_355} : basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24735	24674.03	43.38	24731	24659.37	49.11	24762	24667.8	51.36	24741	24671.9	43.3
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24754	24651.7	60.03	24775	24656.33	39.57	24732	24663.2	40.92	24764	24683.3	43.68
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24808	24662.53	65.95	24731	24665.37	34.7	24790	24681.97	49.91	24747	24658.4	48.67
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24742	24655.17	49.91	24767	24664.9	48.45	24754	24658.63	51.39	24746	24671.27	47.59
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1969: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24770	24680.73	38.89	24744	24665.7	55.27	24752	24660.63	59.78	24772	24673.63	46.01
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24752	24663.53	50.09	24727	24665.1	38.52	24771	24647.43	62.5	24778	24664.53	54.67
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24763	24674.6	47.46	24770	24665.4	53.88	24800	24659.97	49.22	24746	24662	54.21
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24775	24683.23	49.99	24730	24671.83	38.58	24767	24679.8	42.61	24760	24675.63	53.21
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1970: f_{737_355} : basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24753	24667.9	54.58	24771	24682.13	50.59	24762	24668.57	53.11	24784	24665.27	51.19
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24729	24661.23	40.52	24744	24670.93	41.89	24788	24661.23	48.81	24754	24669.67	41.53
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24747	24667.6	49.15	24788	24678.7	46.57	24781	24663.57	53.57	24734	24666.8	46.16
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24745	24664.7	49.48	24811	24683.17	62.38	24812	24659	53.61	24736	24649.9	41.68
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1971: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24757	24675.83	47.13	24732	24657.53	41.06	24720	24640.67	46.92	24754	24657.37	43.04
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24739	24651.23	53.09	24732	24652.4	45.58	24759	24657.27	56.2	24751	24675.67	32.95
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24782	24672.13	54.39	24782	24672.13	54.39	24766	24673.33	52.29	24797	24667.97	61.86
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24754	24674.3	41.95	24754	24674.3	41.95	24757	24650.8	53.14	24734	24661.07	34.91
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1972: f_{737_355} : basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24809	24674.27	43.08	24787	24666.63	43.53	24750	24659.13	57.33	24796	24681.93	53.35
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24727	24646.43	41.62	24742	24662.17	45.47	24771	24656.37	59.25	24750	24666.93	45.65
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24778	24664.87	53.45	24755	24674.7	51.6	24775	24657.97	49.92	24729	24642.2	48.06
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24749	24661.1	46	24778	24668.43	44.53	24791	24672.3	52.43	24757	24665.63	49.5
			2op	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.1973: f_{737_355} : transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47970	47857.6	61.56	47974	47860.57	83.4	47985	47841.37	83.33	48016	47857.93	80.98
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48057	47894.67	84.9	47986	47856.03	77.18	48017	47836	76.2	48025	47848.67	70.98
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	48067	47877.27	70.49	48067	47868.37	89.96	47960	47867.07	67.08	48024	47849.87	72.61
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48042	47865.43	71.56	48096	47840.37	97.09	48030	47855.27	79.85	48029	47847.23	90.2
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1974: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48003	47857.47	99.4	47998	47840.37	91	47965	47832.73	69.6	47964	47815.27	76.6
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47997	47846.03	83.05	47970	47854.77	63.47	47983	47837.47	66.1	47994	47866.53	59.53
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	47959	47815.17	67.55	47973	47863.53	67.3	48090	47831.73	108.29	47999	47810	102.62
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48012	47852.37	88.23	48002	47834.47	75.25	47957	47856.5	71.38	47979	47846.3	79.58
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1975: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48033	47858.03	76.76	48077	47848.13	100.18	47967	47832.2	79.98	47971	47849.3	83.01
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48000	47861.3	84.69	48025	47861.37	72.3	48032	47823.83	101.51	48043	47863.1	87.03
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	48051	47907.73	77.27	47993	47864.2	76.6	47960	47831.37	75.98	48098	47871.6	92.92
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48021	47851.93	80.68	47990	47861.6	68.72	47940	47824.3	60.56	47979	47849.33	73.33
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1976: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47993	47850.57	75.47	48010	47877.1	74.91	48003	47828.13	114.68	48041	47867.13	74.19
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47982	47856.47	81.14	48081	47850.5	73.37	48033	47860.53	87.26	47993	47858.43	86.78
51	20	rnd	47982	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48059	47876	88.89	47978	47843.5	76.05	47970	47867	63.03	47996	47857.13	84.33
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48016	47851.97	74.44	47948	47848.83	67.03	48029	47825.8	63.68	48027	47845.27	96.44
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1977: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48002	47844.03	68.81	48002	47844.03	68.81	47998	47865.57	70.59	48008	47838.6	81.28
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47964	47864.73	63.01	47964	47864.73	63.01	47983	47848.3	68.07	47998	47858.77	61.59
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48035	47861	70.01	48035	47861	70.01	47962	47856.27	61.44	47942	47832.03	60.48
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48042	47841.27	77.04	48042	47841.27	77.04	47976	47809.13	85.75	47991	47810.1	89.97
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1978: f_{1343_354} : basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48067	47865.93	79.66	47977	47860.63	76.74	47978	47866.5	67.57	47976	47854.8	59.08
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47965	47854.07	64.58	47957	47855.57	70.13	48090	47887.67	82.34	47966	47838.6	63.15
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48092	47864.67	79.98	48092	47864.67	79.98	48112	47844.97	110.85	47945	47840.17	60.56
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47995	47860.03	93.25	47990	47844.83	80.31	48015	47871.93	64.9	48039	47866.63	91.73
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.1979: f_{1343_354} : transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56133	55944.5	86.47	56108	55940.9	94.81	56055	55922.33	79.46	56131	55911.13	113.25
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56124	55930.8	81.75	56130	55927.27	102.67	56098	55902.5	89.02	56205	55937.6	104.6
51	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	56100	55935.07	82.69	56086	55939.1	83.46	56147	55900.13	85.57	56088	55925.9	71.94
	50	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	20	rnd	56151	55970.2	79.4	56144	55959.33	88.91	56105	55913.97	85.75	56045	55929.27	67.48
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1980: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56093	55893.87	103.21	56148	55945	80.61	56182	55942.17	98.7	56047	55916.13	85
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56152	55916	105.66	56131	55959.53	72.93	56110	55936.77	76.84	56051	55898.37	77.95
51	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	56065	55928.83	83.98	56104	55955.53	72.05	56120	55945.33	80.11	56077	55903.77	83.29
	50	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	20	rnd	56030	55909.7	59.99	56057	55941.67	87.74	56083	55909.87	72.49	56168	55943.4	116.23
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1981: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56168	55962.37	104.1	56088	55941.73	88.05	56080	55927.8	74.91	56125	55936.5	96.18
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56172	55960.07	92.73	56066	55931.37	76.16	56083	55955.5	81.91	56029	55916	87.14
51	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	56099	55953.03	78.58	56098	55965	83.41	56168	55952.97	96.98	56068	55935.03	84.74
	50	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	20	rnd	56099	55933.73	76.18	56177	55936	89.32	56073	55933.33	80.87	56092	55925.3	73.22
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1982: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56139	55909.33	104.41	56107	55949.2	80.46	56020	55898.47	69.87	56155	55955.43	91.27
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56114	55947.03	86.19	56147	55923.97	84.33	56086	55908.3	84.58	55996	55914.43	64.7
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56108	55933.53	89.43	56092	55926.57	82.01	56091	55914.23	75.41	56109	55929.4	102.67
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56120	55946.63	82.67	56170	55908.63	89.4	56083	55945.7	60.2	56137	55959.2	78.54
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1983: f_{1577_354} : transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56123	55919.67	87.96	56123	55919.67	87.96	56129	55913.2	84.72	56070	55951.27	71.9
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56195	55923.87	111.28	56195	55923.87	111.28	56103	55914.03	84.23	56053	55928.33	69.87
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56193	55940.7	96.72	56193	55940.7	96.72	56091	55940.33	90.3	56061	55941.63	69.33
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56062	55915.77	74.41	56062	55915.77	74.41	56074	55928.83	69.66	56115	55956.57	79.61
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1984: f_{1577_354} : basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56143	55942.57	98.83	56139	55931.73	78.41	56100	55948.57	85.87	56075	55925.97	87.59
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56069	55937.1	100.55	56076	55938.93	75.2	56077	55947.6	69.34	56159	55938.77	86.67
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56059	55947.2	70.21	56059	55947.2	70.21	56060	55940.7	70.49	56136	55945.4	84.8
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56146	55944	88.23	56146	55942.13	75.78	56175	55940	97.49	56091	55929.03	98.32
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.1985: f_{1577_354} : transRRGA+IM – Suspected Optimal is 57373

Results With Post Optimization and Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47354	47084.87	130.89	47339	47104.9	107.23	47395	47128.97	129.4	47302	47173.47	92.66
		2op	47386	47151.17	130.66	47378	47167.3	132.4	47318	47155.67	121.58	47368	47155.37	126.53
	50	rnd	47327	47089.4	119.78	47315	47090.93	121.85	47393	47134.4	100.4	47359	47135.43	108.56
51	20	rnd	47326	47147.63	94.34	47447	47154.13	108.4	47354	47155.47	88.47	47367	47134.6	136.01
		2op	47383	47186.13	96.54	47415	47171.3	99.9	47424	47178.9	110.48	47385	47194.03	147.91
	50	rnd	47373	47189.2	95.51	47363	47205.27	101.08	47443	47201.33	114.67	47454	47240.47	121.97
	20	rnd	47382	47162.9	119.96	47382	47183.5	116.44	47399	47175.83	105.8	47421	47211.6	114.88
		2op	47371	47175.87	109.5	47375	47176.1	104.26	47432	47222.27	91.07	47407	47213.87	109.63

Table A.1986: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47414	47270.53	69.39	47377	47244.6	53.77	47371	47242.77	76.91	47456	47274.83	96.77
		2op	47426	47324.2	44.51	47386	47310.43	48.64	47401	47312.27	51.02	47418	47279.4	67.01
	50	rnd	47382	47281.7	61.7	47469	47316.97	72.84	47319	47230.53	62.62	47364	47233.3	63.53
51	20	rnd	47437	47350.93	41.62	47455	47355.37	45.67	47402	47328.17	42.82	47414	47287.47	68.76
		2op	47367	47273.5	65.75	47454	47361.83	47.19	47384	47266.13	62.98	47419	47291.13	62.9
	50	rnd	47398	47334.5	37.5	47414	47361.33	34.13	47429	47290.7	54.72	47387	47283.53	47.72
	20	rnd	47396	47276.73	63.34	47460	47379.9	53.8	47387	47281.9	52.07	47416	47275.2	79.8
		2op	47376	47339.1	23.71	47434	47379.73	38.37	47355	47304.8	45.52	47425	47321.23	57.9

Table A.1987: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47295	47111.4	110.44	47316	47099.43	111.61	47366	47153.8	121.2	47434	47159.2	144.43
		2op	47368	47111.27	125.1	47485	47172.17	127.19	47379	47091.8	140.38	47427	47170.87	111.4
	50	rnd	47359	47112.2	123.19	47411	47115.67	128.18	47297	47110.1	108.06	47291	47110.03	121.73
51	20	rnd	47422	47157.43	146.19	47391	47152.87	123.96	47392	47168.33	122.8	47396	47160.87	138.45
		2op	47392	47177.3	105.12	47392	47159.5	105.1	47490	47198.73	121.27	47400	47193.6	113.1
	50	rnd	47416	47213.47	102.33	47453	47202.73	119.74	47379	47197.53	83.37	47543	47207.7	129.97
	20	rnd	47338	47143.93	129.72	47400	47158.73	123.67	47416	47136.43	112.98	47367	47181.83	113.77
		2op	47338	47199.27	87.87	47347	47199.43	82.57	47332	47167.27	106.1	47418	47217.9	127.63

Table A.1988: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47359	47257.13	58.89	47470	47267.37	72.62	47372	47235.43	76.13	47430	47265.63	76.84
		2op	47413	47342.97	32.29	47399	47309.07	47.41	47402	47295.2	51.01	47357	47238.7	96.2
	50	rnd	47448	47262.17	62.3	47438	47299.57	80.82	47399	47249.33	96.35	47474	47252.23	83.97
		2op	47401	47338.27	37	47429	47351.43	45.21	47419	47303.97	48.94	47422	47291.8	75.34
51	20	rnd	47378	47283.7	63.88	47423	47356.83	46.64	47432	47237.6	90.62	47377	47241	90.37
		2op	47409	47341.23	44.96	47434	47356.27	41.61	47441	47309.6	52.39	47409	47306.83	60.74
	50	rnd	47415	47294.2	45	47448	47369.87	47.46	47372	47303.63	50.03	47393	47285.3	66.02
		2op	47410	47341.77	36.2	47439	47384.07	43.53	47386	47298.03	53.93	47431	47316.77	57.04

Table A.1989: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47376	47181.13	107.37	47177	46792.07	188.19	47137	46762.77	182.75	46963	46662.63	172.58
		2op	47344	47230.2	76.51	47099	46747.9	188.27	47084	46769.83	126.28	46992	46737.47	150.58
	50	rnd	47391	47238.9	82.81	47092	46792.27	147.8	47192	46802.8	173.1	47037	46776.23	146.03
		2op	47403	47262.03	72.86	47075	46767	145.96	47125	46758.87	184.5	47099	46752.2	169.3
51	20	rnd	47360	47283.87	52.1	47175	46895.03	144.19	47188	46886.27	183.37	47146	46846.9	197.67
		2op	47444	47346.1	35.94	47129	46852.5	135.08	47131	46840.8	151.03	47119	46805.5	176.37
	50	rnd	47438	47310.87	64.95	47077	46835.67	146.77	47211	46804.4	215.35	47178	46812.33	193.53
		2op	47439	47364.37	34.94	47108	46868.67	152.12	47175	46799	194.01	47052	46798.5	154.95

Table A.1990: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47345	47259	48.77	47253	46921.13	175.31	47058	46860.3	136.19	47234	46777.43	218.46
		2op	47429	47354.6	32.16	47354	46921.07	150.16	47093	46858.4	139.64	47195	46745.73	150
	50	rnd	47393	47292.17	51.4	47309	47050.07	121.02	47136	46810.87	186.6	47214	46753.57	196.82
		2op	47433	47355.3	27.49	47370	47088.97	138.57	47229	46854.43	187.71	47004	46745.5	172.59
51	20	rnd	47407	47279.87	61.33	47365	47006.23	204.76	47133	46898.57	151.83	47077	46846.9	141.15
		2op	47415	47349.93	29.34	47275	46978.43	149.63	47298	46962.23	170.94	47125	46790.07	174.85
	50	rnd	47386	47317.87	37.65	47371	47214.57	127.94	47322	47014.77	175.31	47130	46777.7	182.07
		2op	47404	47359.83	19.86	47423	47237.47	130.26	47190	46952.27	161.58	47053	46788.77	167.65

Table A.1991: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151252	150910.5	342.39	151213	150875.87	373.7	151271	150901.9	377.2	151294	150808.03	393.15
		2op	151268	150971.67	337.63	151287	150877.2	323.62	151229	150626.6	492.79	151265	150781.93	434.74
	50	rnd	151252	150956.7	361.38	151260	150923.57	352.63	151229	150867.27	373.79	151243	150801.83	482.57
51	20	2op	151243	150935.63	310.39	151225	150948.27	307.59	151248	150845.87	354.34	151236	150794.47	330.65
		rnd	151233	151060.37	265.66	151240	151045.7	248.35	151301	150916.67	357.99	151255	150988.13	320.75
	50	2op	151287	151095.4	235.24	151250	150955.17	328.59	151257	150903.5	435.97	151250	150851.43	405.97
	20	rnd	151260	150987.73	365.18	151246	150914.53	343.16	151248	150999.7	245.88	151255	150939.6	290.85
		2op	151229	150930.07	361.75	151271	151087.23	204.06	151244	150887.2	376.95	151216	150785.03	439.32

Table A.1992: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151321	151221.37	43.93	151284	151217.47	45.34	151270	151109.7	273.02	151249	150925.1	426.43
		2op	151269	151202.77	44.01	151312	151211.57	112.5	151315	151131.03	272.42	151305	150901.77	358.74
	50	rnd	151295	151209.17	44.33	151325	151193.4	157.18	151277	151216.73	31.46	151282	151012.17	330.76
51	20	2op	151274	151218.4	32.1	151310	151219.57	46.74	151264	151179.37	121.21	151277	151035.03	289.55
		rnd	151275	151197.53	46.03	151302	151203.4	45.75	151314	151176.1	158.48	151282	151067.53	238.67
	50	2op	151295	151215.37	40.85	151353	151234.03	40.04	151313	151122.9	219.23	151278	151132.57	198.02
	20	rnd	151258	151172.1	46	151273	151216.5	36.48	151291	151165.87	142.68	151294	151098.6	214.98
		2op	151270	151223.27	32.47	151298	151238.03	39.7	151314	151223.4	44.83	151289	151145.43	186.77

Table A.1993: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151286	150943.27	338.06	151206	150714.8	461.74	151252	150892.9	311.98	151286	150875.17	335.93
		2op	151235	151008.27	300.05	151237	150977.33	314.93	151245	150702.9	385.75	151288	150840.17	347.81
	50	rnd	151272	150928.5	447.46	151279	151003.47	310.92	151186	150813.5	397.7	151270	150817.47	484.76
51	20	2op	151231	151086.27	183.9	151230	150908.07	350.35	151282	150960.6	399.22	151230	150830.9	423.05
		rnd	151242	151057.4	266.78	151257	151001.37	273.62	151276	150974.5	337.99	151308	150796.57	548.56
	50	2op	151237	151058.2	211.8	151293	151048.27	249.61	151239	150874.33	430.41	151234	150778.97	425.71
	20	rnd	151260	151051.03	234.05	151263	150980.17	317.65	151258	150966.23	323.91	151231	150654.7	463.53
		2op	151246	151045.73	232.98	151260	150939.93	361.2	151254	150967.7	386.74	151245	150626.37	536.17

Table A.1994: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151336	151209.83	54.77	151303	151173.97	153.03	151305	151179.77	91.55	151290	150884.63	358.71
		2op	151311	151198.7	100.52	151296	151192.7	127.52	151317	151205.97	137.18	151242	150878.57	419.34
	50	rnd	151310	151201.7	49.11	151281	151206.47	46.17	151276	151144.23	194.41	151248	151088.3	273.18
51	20	rnd	151289	151227.93	40.59	151280	151215.7	38.01	151325	151215.8	112.26	151247	150990.6	307.27
		2op	151315	151179.97	116.46	151310	151219.07	48.93	151294	151167.6	210.84	151286	151139.63	156.19
	50	rnd	151295	151217.23	35.99	151282	151219.9	37	151297	151205.8	84.42	151282	151148.2	155.88
	20	rnd	151277	151192.1	46.27	151284	151212.47	39.89	151286	151195.3	113.45	151315	151136.47	178.1
		2op	151282	151213.73	34.55	151287	151233	27.97	151273	151221.17	35.76	151296	151093.9	231.85

Table A.1995: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151235	151024.67	266.45	151258	150752.7	500.03	151248	150724.73	430.68	151274	150658.7	450.74
		2op	151236	151022.43	217.57	151205	150656.67	493.54	151247	150673.27	415.72	151240	150852.73	362.8
	50	rnd	151281	150972.77	373.17	151179	150721.87	374.63	151197	150816.03	412.08	151243	150748.33	401.7
51	20	rnd	151279	151054.47	233.04	151304	150831.8	427.83	151237	150697.8	458.16	151230	150714.47	465.61
		2op	151248	151130.47	149.8	151243	150771	434.71	151268	150787.67	390.62	151228	150727.9	387.4
	50	rnd	151288	151165.23	118.42	151255	150878.47	407.87	151247	150831.6	467.81	151192	150719.17	477.74
	20	rnd	151257	151127.87	160.27	151235	150808.17	412.84	151204	150844.97	382.74	151245	150725.2	555.52
		2op	151268	151138.13	111.37	151247	150784.47	429.36	151346	150701.1	489.54	151240	150809.57	373.94

Table A.1996: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151281	151202.2	41.02	151241	150843.67	398.46	151278	150777.73	415.5	151216	150627.77	596.35
		2op	151313	151226.73	40.34	151217	150840.47	346.54	151301	150853.8	402.69	151249	150644.17	450
	50	rnd	151299	151201.43	46.6	151235	150917.7	286.26	151233	150659.23	485.27	151213	150794.57	410.41
51	20	rnd	151289	151222.47	33.49	151238	150789.5	486.91	151270	150728	542.55	151246	150802.47	363.21
		2op	151288	151198.87	47.88	151218	150801.03	463.31	151259	150795.13	390.36	151225	150684.93	406.77
	50	rnd	151311	151226.2	36.39	151316	150964.3	373.26	151224	150719	382.39	151222	150757.97	389.29
	20	rnd	151299	151205.8	40.11	151281	150996.2	383.16	151228	150939.9	323.36	151188	150649.03	455.41
		2op	151292	151215.43	38.84	151288	150943.27	334.95	151320	150750.83	422.56	151249	150850.77	289.41

Table A.1997: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166868	166448.87	282.07	166997	166482.43	332.94	167096	166306.53	487.84	166920	166322.1	362.45
		2op	166887	166412	344.19	166801	166303.77	412.19	166883	166415.57	380.89	166832	166445.23	286.12
	50	rnd	166980	166440.47	392.54	166957	166422.53	352.13	166839	166331.97	376.85	166847	166336.6	423.1
51	20	rnd	166941	166409.97	309.28	167035	166471.9	305.4	166929	166318.03	418.36	166840	166383.77	315.3
		2op	166890	166515.33	290.92	166852	166427.1	392.83	167019	166339.27	412.75	166944	166364.97	279.75
	50	rnd	167013	166464.3	298.99	166964	166542.8	284.32	166950	166383.9	335.63	166937	166227.37	406.14
	20	rnd	166952	166469.97	368.65	166930	166597.93	154.42	166925	166290.4	364.23	167183	166538.13	350.5
		2op	166979	166582.1	260.23	166909	166452.17	277.77	166999	166369.13	407.65	166901	166364.37	339.56

Table A.1998: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167374	167005	187.43	167283	166907.47	229.83	167237	166813.57	255.53	167122	166561.1	416.62
		2op	166708	166620.73	52.88	166929	166652.8	92.23	166742	166643.07	43.08	166842	166463.47	314.16
	50	rnd	167286	167015.8	163.46	167434	167060.13	269.83	167254	166954.43	183.12	167340	166692.23	295.84
51	20	rnd	166702	166612.77	40.22	166713	166639.6	46.91	166807	166633.1	114.8	166918	166534.67	273.2
		2op	167418	167028.37	210.2	167417	167079.93	183.29	167431	166864.57	245.74	167165	166765.63	276.31
	50	rnd	166699	166598.43	82.21	166750	166641.37	58.75	166730	166648.03	48.15	166906	166607.1	150.88
	20	rnd	167390	167016.93	173.97	167419	167139.6	207.07	167413	166947.67	232.41	167356	166921.43	193.5
		2op	166743	166604.8	57.17	166715	166631.77	44.45	166749	166638.03	46.64	166794	166587.33	156.66

Table A.1999: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166798	166406.53	291.98	166980	166389.93	391.59	166821	166286.5	440.19	167143	166459.53	363.14
		2op	167007	166382.73	398.19	166951	166442.93	335.53	166775	166332.4	375.02	166822	166320.8	485.17
	50	rnd	167020	166511.73	267.39	166881	166414.7	361.04	166907	166263.57	478.55	166786	166239.43	388.55
51	20	rnd	167158	166454.63	390.43	166935	166411.17	378.16	166764	166291.7	455.5	167134	166397.13	421.31
		2op	166941	166552.77	268.28	167215	166486.4	446.3	166921	166363	364.74	166898	166286.5	423.57
	50	rnd	167171	166568.27	396.63	166984	166429.7	389.14	167024	166446.73	403.98	166928	166401.97	370.05
	20	rnd	167015	166623.63	194.19	167012	166519.07	322.65	166954	166458.43	422.59	167176	166425.4	345.11
		2op	166954	166503.57	340.82	166831	166506.3	282.02	167117	166537.77	287.24	167025	166469.5	350.38

Table A.2000: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167420	166975.2	203.23	167335	166918.43	241.71	167347	166787.13	222.16	166897	166356.53	342.74
		2op	166706	166610.3	84.74	166837	166604.67	118.74	166877	166631.9	125.35	166985	166480.6	383.77
	50	rnd	167477	166991.03	239.03	167337	166989.43	176.86	167347	166868.43	206.47	167136	166740.23	268.05
51	20	2op	166803	166613.4	107.83	166709	166624.13	85.4	166832	166608.83	152.69	166952	166458.17	327.71
		rnd	167410	167030.53	184.97	167382	167049.4	211.12	167197	166913.93	141.32	167281	166792.57	252.64
	50	2op	166682	166594.5	39.09	166773	166637.53	49.72	166752	166613.23	135.96	166837	166623.93	86.65
	20	rnd	167309	167007.9	185.52	167435	167226.3	146.98	167367	166940.87	245.41	167231	166907.93	181.83
		2op	166646	166584.93	42.39	166835	166644.1	59.08	166715	166639.3	44.5	166763	166617.7	80.86

Table A.2001: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166943	166546.2	255.03	166971	166233.67	421.76	166962	166299.7	434.42	166998	166309.13	421.17
		2op	166943	166464.57	344.06	166865	166288.47	358.23	166886	166360.47	403.77	166802	166272.63	404.04
	50	rnd	166937	166573.63	264.25	166997	166197.07	573.27	166818	166290.2	380.66	166876	166286.13	446.14
51	20	2op	166954	166529.7	308.48	166998	166401.87	348.24	166791	166181.9	480.1	166807	166322.1	374.35
		rnd	167124	166770.9	177.86	167124	166652.43	304.71	166849	166312.4	429.36	166900	166267.43	464.29
	50	2op	167038	166689.83	158.73	167038	166579.3	324.99	167122	166433.9	354.06	166875	166198.67	455
	20	rnd	167112	166678.37	242.67	167128	166635.33	284.05	166871	166258.03	388.47	166960	166435.6	308.92
		2op	166998	166628.03	221.83	166998	166565.17	292.61	166746	166261.17	429.14	167066	166255.77	496.46

Table A.2002: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167456	167053.57	201.71	166908	166394.53	399.27	166831	166202.3	525.62	166836	166225.33	425.62
		2op	166783	166604.53	143.33	166793	166503.1	312.55	166817	166344.47	354.2	166958	166318.47	487.66
	50	rnd	167438	167082.73	177.53	166893	166459.43	329.11	167087	166219.77	433.77	166904	166341.87	386.09
51	20	2op	166686	166605.93	54.12	166983	166446.4	314.62	166915	166398.63	305.54	166820	166331.5	433.82
		rnd	167382	167056.73	163.51	166890	166409.23	323	167026	166278.37	401.57	166802	166303.53	401.03
	50	2op	166703	166613.97	53	166905	166305.2	479.32	166807	166187.87	429.17	166929	166319.03	426.75
	20	rnd	167403	167065.2	207.96	166983	166482.03	322.68	166994	166499.67	336.71	166950	166279.9	563.63
		2op	166750	166606.13	47.7	166781	166354.47	435.33	166831	166243.17	507.44	166782	166281.57	345.05

Table A.2003: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163160	162944.23	99.07	163093	162960.97	77.95	163101	162910.97	103.73	163113	162949.13	111.69
		2op	163113	162937.47	119.05	163115	162950.53	92.61	163116	162972.8	84.49	163133	162999.73	70.62
	50	rnd	163134	162968.9	100.54	163139	162959.6	107.79	163071	162920.17	95.17	163144	162979.7	77.91
51	20	rnd	163129	162973.1	80.76	163143	162947.6	111.25	163053	162944.07	85.05	163108	162965.47	75.48
		2op	163168	162969.5	89.24	163137	162988.7	71.69	163086	162981.2	68.44	163136	162972.47	105.02
	50	rnd	163166	162991.83	96.02	163103	162994.3	59.49	163102	162961	93.79	163290	162967.27	131.5
	20	rnd	163189	162980.17	88.36	163150	162971.27	124.55	163091	162958.83	103.82	163122	162977.6	93.66
		2op	163173	162981.2	99.02	163164	163007.57	94.91	163146	162981.17	78.97	163159	163005.27	64.8

Table A.2004: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163222	163071.5	79.67	163254	163100.8	73.06	163243	163093.67	75.14	163197	163031.5	108.46
		2op	163192	163098.73	55.28	163304	163119.87	72.23	163238	163107.53	74.4	163313	163060.07	87.12
	50	rnd	163232	163053.37	72.92	163163	163055.17	71.62	163244	163094.83	96	163188	163070.7	79.33
51	20	rnd	163212	163084.1	61.06	163225	163116.27	48.91	163253	163118.87	68.21	163188	163082.4	57.94
		2op	163228	163074.17	82.36	163213	163103.33	48.29	163202	163105	61.11	163198	163084.83	73.01
	50	rnd	163239	163089.2	55.96	163212	163117.77	59.47	163231	163105.83	76.05	163288	163120.47	76.08
	20	rnd	163196	163060.23	66.66	163201	163089.67	69.14	163193	163085.33	62.71	163196	163075.33	63.93
		2op	163173	163057.63	72.53	163158	163080.2	49.95	163242	163123.23	64.57	163195	163112.07	52.14

Table A.2005: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163125	162953.37	92.13	163208	162941.03	105.54	163112	162951.07	85.73	163140	162991.63	89.23
		2op	163148	162925.9	130.42	163064	162941.03	93.93	163135	162961.23	70.5	163251	162961.03	120.53
	50	rnd	163180	162978.8	121.72	163108	162927.63	108.62	163091	162942.53	81.94	163093	162970.53	82.14
51	20	rnd	163135	162981.57	80.29	163163	162959.87	79.94	163085	162920.87	115.99	163119	162949.77	92.83
		2op	163097	162966.7	114.3	163132	162990.13	96.6	163123	162975.93	89.87	163083	162956.83	103.47
	50	rnd	163118	162997.3	89.54	163139	162964.13	107.04	163069	162942.67	104.55	163164	162979.5	119.82
	20	rnd	163154	162994.77	89.52	163240	162985.83	108.95	163087	162952.97	84.36	163140	162974.83	101.1
		2op	163177	163000.9	87.41	163096	162966.37	86.93	163053	162958.7	69.69	163103	162943.7	94.02

Table A.2006: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163215	163082.5	71.9	163209	163077.1	75.25	163172	163084.63	54.66	163202	163024.77	116.12
		2op	163201	163084.47	59.96	163269	163123.63	69.71	163217	163101.97	61.76	163246	163040.37	85.48
	50	rnd	163200	163048.87	65.31	163204	163063.07	66.45	163281	163103.37	91.83	163248	163051.4	109.15
51	20	2op	163186	163095.8	47.93	163272	163110.1	84.33	163263	163147.07	62.68	163278	163084.5	72
		rnd	163186	163073.37	70.27	163237	163086.6	69.29	163222	163098.37	65.89	163284	163124.83	63.35
	50	2op	163156	163054.17	74.37	163214	163093.6	59.87	163209	163118.63	66.45	163221	163116.5	56.16
	50	rnd	163175	163055.63	77.25	163244	163068.97	107.17	163191	163071.57	63.69	163215	163084.6	71.35
		2op	163303	163062.93	72.55	163174	163099.9	55.07	163212	163096.37	61.72	163238	163127.97	71.66

Table A.2007: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163173	162971.47	115.41	163151	162971.03	114.79	163064	162920.37	81.05	163206	162984.17	92.91
		2op	163158	162998.03	91.82	163131	162939.07	123.36	163163	162943.67	104.3	163157	162983.57	67.74
	50	rnd	163182	162949.2	120.39	163136	162935.1	103.14	163095	162975.6	78.16	163120	162966.03	60.02
51	20	2op	163112	162942.8	97.61	163137	162943.87	113.91	163118	162979.93	81.5	163085	162935.9	110.6
		rnd	163236	162975.3	94.44	163236	162975.3	94.44	163115	162935.17	133.41	163125	162979.6	91.37
	50	2op	163163	162993.73	78.89	163163	162993.73	78.89	163057	162937.2	91.59	163046	162908.63	113.54
	50	rnd	163109	162973.93	68.56	163109	162973.93	68.56	163124	162939.37	100.23	163108	162957.7	95
		2op	163080	162985.67	60.23	163080	162985.67	60.23	163067	162931.43	89.65	163188	162927.83	130.61

Table A.2008: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163225	163078	69.27	163179	162970.87	75.7	163083	162935.6	88.05	163125	162955.1	99.71
		2op	163213	163111.13	53.61	163112	162967.83	87.61	163110	162970.5	104.05	163111	162959.87	89.18
	50	rnd	163237	163047.47	75.97	163170	162996.33	83.84	163181	163011.3	83.32	163160	162980.5	86.89
51	20	2op	163172	163049.13	46.33	163125	162957.53	112.06	163172	162966.03	94.79	163135	162914.57	122.45
		rnd	163218	163065.83	71.3	163136	162960.57	94.83	163104	162971.4	80.63	163163	162970.87	86.44
	50	2op	163163	163085.07	46.29	163173	162962.07	143.02	163106	162931.27	168.39	163130	162956.43	89.98
	50	rnd	163234	163070.33	67.91	163119	163012.17	79.78	163165	162948.2	109.17	163105	162953.93	78.63
		2op	163147	163052.13	58.02	163158	162983.63	69.1	163156	162981.33	113.19	163126	162957.63	96.06

Table A.2009: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179978	179769.67	89.19	179880	179688.6	95.93	179893	179710.03	84.58	179880	179725.67	69.78
		2op	179904	179751.77	76.16	179836	179716.3	94.36	179849	179699.57	84.66	179916	179736.37	78.2
	50	rnd	179912	179718.07	95.59	179963	179705.67	109.15	179834	179686.1	82.78	179888	179731.3	85.1
51	20	rnd	179941	179730.97	104.23	179915	179690	91.21	179809	179693	71.58	179885	179741.33	79.38
		2op	179929	179758.07	73.41	179935	179719.53	99.89	179920	179724.97	97.02	179885	179738.13	94.15
	50	rnd	179873	179744.9	76.07	179965	179771.53	84.41	179898	179698.07	76.42	179964	179764.07	105.64
	20	rnd	179935	179747.4	100.72	179895	179708.03	97.75	179852	179698.6	74.61	179867	179726.77	81.32
		2op	179939	179751.77	74.83	179938	179738.7	95.9	179926	179718.93	97.12	179835	179687.57	86.09

Table A.2010: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	180078	179819.37	90.87	180036	179864.7	86.81	180039	179869.07	68.49	179964	179831.7	88.34
		2op	180079	179955.67	67.85	180111	179970.53	64.32	180112	179972.33	65.49	180007	179860.2	79.71
	50	rnd	180089	179841.97	107.17	180020	179857.3	101.11	180018	179887.03	83.58	179991	179837.63	96.19
51	20	rnd	180127	179925.6	71.27	180051	179947.23	64.23	180149	179964.53	79.65	180089	179902.23	85.28
		2op	180006	179842.8	77.83	179955	179825.5	84.39	180037	179873.07	98.71	180029	179853.63	97.41
	50	rnd	180097	179940.47	79.48	180171	179973.53	91.36	180151	179992.1	75.8	180071	179926.93	82.6
	20	rnd	179953	179802.43	89.65	180031	179851.3	87.83	179981	179849.97	68.16	179962	179850.27	83.44
		2op	180035	179913.73	72.54	180071	179961.5	72.5	180177	179983.53	83.04	180096	179939.17	86.61

Table A.2011: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179854	179734.33	61.35	179906	179682.37	92.48	179852	179690.57	79.17	179912	179741.2	94.47
		2op	179901	179718.1	90.86	179916	179706.5	85.44	179834	179682.97	95.63	179935	179766.8	91.12
	50	rnd	179876	179688.27	109.16	179905	179716.03	89.48	179833	179708.6	74.56	179895	179711.2	110.15
51	20	rnd	179895	179739.37	77.38	179886	179712.5	93.15	179839	179705.87	72.37	179884	179718.57	64.48
		2op	179944	179769.37	78.07	179913	179743.37	65.09	179870	179700.3	86.56	179880	179751.5	70.86
	50	rnd	179968	179767.23	98.95	179920	179744.77	76.81	179888	179746.67	84.89	179884	179733.13	80.81
	20	rnd	179878	179772.4	64.18	179906	179753.77	82.85	179872	179726.6	82.38	179914	179738.9	88.66
		2op	179909	179751.37	77.75	179904	179772.43	73.04	179962	179722.23	77.78	179948	179744.7	79.14

Table A.2012: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	180031	179824.7	82.65	180048	179857.2	94.32	180045	179880.37	83.16	179961	179806.6	68.58
		2op	180124	179958.53	84.31	180104	179981.97	77.97	180143	179958.27	91.27	179989	179853.13	75.23
	50	rnd	179977	179828.03	89.5	180040	179851.7	88.38	180071	179888.63	74.57	179995	179830.87	78.69
51	20	2op	180075	179931.9	62.81	180134	179977.8	71.2	180106	179987.07	75.15	180082	179881.23	86.25
		rnd	180062	179861.93	107.01	180006	179879.93	79.87	180061	179892.5	79.19	179964	179862.5	64.93
	50	2op	180141	179971.23	74.48	180105	179968.27	79.37	180147	179984.73	70.18	180067	179896.77	81.63
	20	rnd	180021	179815.67	97.69	179964	179798.4	95.58	180007	179867.57	75.79	179997	179866.8	60.7
		2op	180094	179926.3	63.48	180102	179989.13	53.04	180117	179961.37	72.68	180098	179931.27	81.32

Table A.2013: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179928	179709.27	92.48	179889	179717.57	109.13	179857	179677.3	67.84	179905	179713.73	114.79
		2op	179895	179720.27	100.11	179806	179731.8	54.31	179844	179679.6	97.29	179911	179726.3	90.29
	50	rnd	179829	179692.47	57.17	179936	179719.63	76.63	179934	179682.03	112.91	179855	179693.47	75.16
51	20	2op	179892	179716.87	86.01	179852	179682.33	92.36	179929	179680.97	96.2	179880	179758.97	77.43
		rnd	179909	179732.4	79.18	179909	179732.4	79.18	179890	179697.93	80.1	179863	179696.17	80.87
	50	2op	179883	179753.73	75.93	179883	179753.73	75.93	179968	179679.57	104.12	179889	179710.23	103.65
	20	rnd	179985	179727.87	98.11	179985	179727.87	98.11	179812	179685.47	73.79	179868	179723.8	88.11
		2op	179897	179753.43	65.88	179897	179753.43	65.88	179885	179691.23	88.63	179927	179721.2	77.4

Table A.2014: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	180016	179846.4	94.03	179880	179737	82.34	179862	179743.93	85.93	179867	179692.7	95.89
		2op	180151	179972.97	57	179922	179723.17	84.44	179923	179726.7	87.09	179882	179714.6	74.1
	50	rnd	179970	179835.57	73.12	179892	179712.83	72.89	179905	179723.2	87.15	179903	179723.83	93.68
51	20	2op	180050	179925.23	67.4	179898	179710.67	84.41	179927	179740.37	108.24	179918	179729.53	93.68
		rnd	180033	179819.87	82.99	179923	179746.03	93.71	179878	179726.67	85.34	179856	179716.43	73.23
	50	2op	180088	179960.8	69.02	179875	179737.37	81.38	179905	179748.53	88.76	179884	179740.8	80.32
	20	rnd	179965	179806.4	83.48	179879	179739.23	74.23	179862	179716	85.99	179933	179704.67	77.82
		2op	180077	179926.17	68.96	179953	179743.5	97.03	179972	179731.87	101.08	179861	179734.7	68.14

Table A.2015: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343061	342251.57	591.64	343056	342373.37	476.52	342963	342177.27	511.1	343063	342184.83	541.18
		2op	343260	342473.37	499.86	343160	342438.33	655.26	343061	342308.7	537.72	343115	342327.2	453.63
	50	rnd	343101	342599.67	375.26	343093	342447.6	440.92	343078	342424.87	421.78	343073	342251.33	634.19
51	20	rnd	343146	342480.4	529.95	343140	342657.83	401.94	342938	342256.93	435.02	343035	342231.9	606.87
		2op	343105	342603.67	374.5	343136	342624.4	352.18	343187	342385.1	550.86	343068	342434.77	460.38
	50	rnd	343181	342604.53	417.81	343074	342613.23	368.56	342989	342190.4	458.1	343089	342274.73	568.2
	20	rnd	343089	342660.67	385.17	343087	342436.97	431.7	343117	342463.5	520.97	343030	342341.27	466.75
		2op	343071	342607.53	364.42	343170	342627.77	376.79	343206	342397.03	556.29	342942	342177.3	454.36

Table A.2016: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343185	343021.23	123.36	343212	343012.13	173.19	343230	342863	389.59	343074	342600.73	405.67
		2op	343239	343073.43	87.12	343217	343016.4	212.19	343200	342929.3	217.56	343122	342488.47	466.57
	50	rnd	343232	343019.3	105.63	343206	343022.5	182.02	343197	342845.07	326.27	343194	342633.77	445.96
51	20	rnd	343282	343057.83	99.57	343231	343002.8	270.24	343196	343006.3	162.81	343231	342799.1	440.01
		2op	343232	343034.03	91.07	343315	343094.23	103.44	343236	342958.13	259.33	343190	342858.3	275.82
	50	rnd	343188	343082.43	78.84	343240	343049.3	160.3	343200	342976.37	217.66	343315	342799.27	351.84
	20	rnd	343259	343025.4	109.32	343217	343041.5	141.14	343181	342991.73	210.75	343187	342822.27	296.88
		2op	343183	343042.6	70.62	343166	343048.7	116.89	343236	343048.4	159.95	343236	342943.17	291.02

Table A.2017: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343002	342436.8	473.05	343014	342331.5	463.18	343095	342394.73	625.39	343010	342450.77	406.08
		2op	343064	342607.4	267.19	343173	342400.73	521.53	343042	342337.23	532.1	343106	342339.23	564.75
	50	rnd	343000	342340.27	407.23	343057	342520.57	424.17	343051	342172.17	583.41	343032	342054.9	566.09
51	20	rnd	343086	342454.47	547.84	343087	342260.67	577.38	343003	342292.47	514.28	342915	342061.03	605.25
		2op	343365	342667.63	401.54	343115	342627.37	335.9	343074	342248.53	570.7	343104	342268.73	548.46
	50	rnd	343233	342738	395.1	343127	342517	436.49	343037	342390.43	461.13	343036	342220.5	509.5
	20	rnd	343155	342686.03	328.36	343286	342641.5	462.95	343017	342400.97	416.22	343075	342251.13	653.52
		2op	343155	342620.3	365.22	343087	342469.17	593.7	343135	342602.1	405.41	343088	342338.27	512.36

Table A.2018: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343200	343002.9	197.72	343248	342979.9	229.06	343192	342908.63	241.49	343124	342581.73	420.22
		2op	343334	343097.6	96.64	343270	343026.9	178.77	343213	343022.13	152.32	343144	342458.07	453
	50	rnd	343190	343061.27	84.71	343231	342981.27	240.42	343190	342991.2	189.51	343111	342667.5	407.06
51	20	2op	343261	343066.23	82.52	343269	343033.3	154.87	343264	342993.4	250.6	343169	342565.37	410.17
		rnd	343163	342996.23	178.7	343190	343012.6	166.87	343269	342880.23	260	343162	342805.1	303.19
	50	2op	343297	343073.3	86.39	343259	343000.87	206.97	343264	343005.87	218.04	343290	342869.13	412.2
	20	rnd	343181	343015.07	122.19	343270	343011.23	154.36	343219	342983.33	223.28	343209	342943.87	258.77
		2op	343208	343031.43	128.55	343221	343053.1	133.74	343210	342985.73	209.94	343223	342926.23	260.44
	50	rnd												

Table A.2019: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343194	342331.37	486.46	343194	342351.2	491.01	343138	342121.47	596.91	343011	342126.47	567.7
		2op	343073	342642.13	369.57	343073	342576.8	450.91	342994	342124.63	448.51	343010	342280.27	612.64
	50	rnd	343099	342423.23	527	343135	342339	541.29	342967	342240.2	696.73	343150	342426.07	473.04
51	20	2op	343070	342376.97	508.78	343070	342290.2	627.87	343105	342098.33	624.12	343103	342339.03	532.9
		rnd	343062	342720.9	348.79	343062	342720.9	348.79	343020	342307.13	499.38	342942	342246.77	460.81
	50	2op	343052	342695.37	394.71	343052	342695.37	394.71	343024	342118.67	663.59	343133	342216.9	602.51
	20	rnd	343097	342749.5	310.09	343097	342749.5	310.09	343020	342095.8	548.96	343092	342115.63	588.46
		2op	343181	342762.27	355.03	343181	342762.27	355.03	343015	341860.87	585	343045	342187.03	539.32
	50	rnd												

Table A.2020: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343191	343029.73	85.66	343143	342399.4	539.46	343106	342454.23	422.26	343129	342418.13	577.07
		2op	343310	343062.9	93.27	343110	342364.03	496.69	343230	342361.17	547.94	343049	342455.67	482.64
	50	rnd	343254	343078.1	92.82	343146	342397	560.07	343037	342282.83	581.2	343071	342253.07	615.03
51	20	2op	343278	343031.93	89.42	343234	342481.43	580.13	343173	342291.43	472.47	343174	342309.13	616.15
		rnd	343297	343088.53	80.65	343127	342248.33	473.02	343060	342306.17	585.04	343037	342287.37	554.53
	50	2op	343219	343063.7	84.58	343044	342235.33	511.62	343072	342234.7	610.28	343017	342336.33	554.26
	20	rnd	343201	343035.33	81.6	343137	342500.13	479.99	343012	342215.37	494.86	343120	342294.2	639.5
		2op	343246	343061.87	79.18	343109	342487.37	569.51	342968	342029.87	540.74	343011	342352.27	404.69
	50	rnd												

Table A.2021: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226817	225691.23	683.57	226735	225595.97	665.39	226996	225773.4	670.19	227009	225513.37	742.3
		2op	226715	225893.4	458.37	227084	225861.1	622.61	226698	225865.67	540.99	226920	225771.73	623.67
	50	rnd	226723	225582.87	662.34	227012	225708.5	675.81	226741	225366.17	825.14	226402	225692.87	469.28
51	20	2op	226928	225905.1	711.44	226855	225861.43	647.46	226613	225759.53	553.27	227033	225765.23	641.62
		rnd	227052	225959.37	517.58	227115	225803.5	673.69	226856	225772.27	778.57	226759	225854.33	570.86
	50	2op	226992	226208.23	507.81	226878	225907.37	515.1	227032	226052.6	549.58	227045	225952.47	586.83
	20	rnd	226831	225889.3	607.91	227560	225906.17	748.15	226996	225801.13	680.2	226755	225886.13	496.07
		2op	226867	225956.3	551.81	227078	225952.23	658.72	227267	225933.57	783.83	227279	226259.03	514.41

Table A.2022: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226579	225792.83	566.38	227343	225832.87	830.77	226784	225814.6	654.64	227102	225884.43	616.85
		2op	226795	226105.2	334.49	226823	226230.4	320.89	226991	226305.2	451.5	227150	226286.9	502
	50	rnd	226939	225595.33	644.99	226488	225617.73	637.03	227003	225699.97	618.19	227153	225914.57	686.3
51	20	2op	226888	226161.43	361.98	226793	226191.97	304.23	226915	226377.23	302.59	227041	226348.97	398.64
		rnd	226991	225544.03	809.14	227021	225880.97	536.7	226889	225863.4	640.84	226873	225879.4	546.35
	50	2op	226826	226148.03	356.02	226940	226390.3	318.02	227013	226327.47	397.11	226957	226369.87	419.06
	20	rnd	227069	225518.13	800.88	227555	226304.37	535.72	226912	225913.17	710.5	226837	225876.8	577.36
		2op	226824	226159.5	404.05	227016	226334.4	341.31	226998	226233.6	415.76	227003	226436.37	366.34

Table A.2023: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226812	225657.5	870.33	226814	225693.17	640.15	226511	225710.7	471.91	226704	225578.3	738.1
		2op	226832	225850.27	506.47	226865	225886.6	642.95	227014	225633.47	681.59	226587	225754.47	436
	50	rnd	226873	225588.27	738.1	227139	226013.6	623.1	226880	225544.63	856.42	226547	225665.5	591.44
51	20	2op	226659	225853.43	468.76	226819	225969.3	557.08	226695	225620.63	559.34	227130	225887.03	549.48
		rnd	227025	225742.13	757.86	227219	225879.4	646.56	227019	225818.4	674.8	226600	225750.43	646.33
	50	2op	226847	226112.83	540.6	227015	226284.83	416.51	226924	226093.3	488.23	227191	225901.5	751.36
	20	rnd	227146	225954	613.82	227017	225928.5	598.35	226863	225879.27	744.39	226551	225723.97	472.66
		2op	227106	225899.87	671.23	226554	225721.43	522.46	227071	225891.13	771.63	226943	225921.8	613.89

Table A.2024: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226961	225672.43	735.79	227098	225764.4	679.25	227130	225925.33	651.58	226729	225969.6	513.6
		2op	226997	226169.73	285.67	226592	226156.6	293.37	227139	226297.87	387.97	227136	226220.33	570.73
	50	rnd	227016	225742.2	596.07	227053	225917.13	609.3	227321	226005.43	707.7	227209	225744.2	864.57
51	20	rnd	226937	226221.9	366.72	226976	226172.6	419.57	226992	226284.97	389.96	227136	226325.6	416.18
		2op	226863	225742.1	671.62	226808	225994.1	596.54	227294	225616.53	619.77	227201	225841.8	713.04
	50	rnd	226660	226266.8	302.67	226932	226317.13	373.13	226955	226267.43	423.22	226979	226273.97	367.27
	20	rnd	227130	225662.73	832.55	226844	226096.83	580.52	226838	225843.5	680.72	227036	225979.8	548.59
		2op	226776	226196.97	301.66	226970	226395.4	222.6	226851	226339.23	306	226930	226321.03	338.5

Table A.2025: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	227083	225919.5	603.9	226567	225402.97	838.62	226645	225385.97	901.93	226764	225040.7	893.35
		2op	227085	226172.27	612.09	226472	225311.13	633.59	226424	225121.57	717.85	226887	225131.67	821.75
	50	rnd	227274	225925.83	659.34	226251	224980	843.73	226073	225002.3	564.76	226515	225239.43	679.44
51	20	rnd	227093	226190.17	466.66	226821	225383.23	754.24	226289	225293.5	595.79	226748	225336.93	775.2
		2op	226828	226079.43	502.91	226740	225247.7	809.98	226227	225077.37	790.68	226407	225261	678.49
	50	rnd	227004	226370.8	301.36	225908	225081.2	709.64	226793	225249.67	532.64	226714	225481.4	622.67
	20	rnd	227024	226099.87	539.26	226773	225266.9	836.24	226528	225237.97	772.25	226207	225031.43	813.24
		2op	227075	226411.13	417.1	226482	225149.07	752.31	226733	225448.17	663.02	226738	225264.77	633.91

Table A.2026: *bx842596_4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226710	225647.13	744.95	226527	225295.23	707.48	226552	225395.2	758.74	226581	225093.03	811.5
		2op	226766	226224.43	292.17	226806	225327.4	779.48	226433	225402.27	629.4	226772	225257.3	784.35
	50	rnd	226916	225716.63	737.03	226956	225795.73	734.39	226393	225264.6	651.43	226892	225441.77	912.67
51	20	rnd	226794	226205.47	267.73	226794	225686.13	628.56	226396	225356.9	642.64	226812	225348.7	672.82
		2op	227120	225613.37	871.25	226858	225405.77	831.39	226865	225314.1	848.67	226431	225207.77	862.19
	50	rnd	226899	226242.97	316.79	226529	225239.33	706.83	226614	225445.73	662.16	226168	225203.03	683.54
	20	rnd	227384	225921.17	586.92	227012	225772.43	677.04	226389	225139.27	720.18	226447	225290.23	727.25
		2op	226913	226287.1	243.03	227150	226085.3	716.03	227159	225553.07	835.53	226839	225419	681.6

Table A.2027: *bx842596_4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	443013	440248.13	1196.56	442614	440484.07	970.38	442952	440267.3	1272.22	442971	440458.17	1248.34
		2op	442664	440224.27	1062.89	442290	440333.83	1198	442316	440743	996.15	442124	440524.9	1184.09
	50	rnd	442009	440053.53	1091.44	442093	440003.73	1237.34	441728	440453.97	829.72	442370	439786.43	1175.27
51	20	rnd	442320	440100.6	935.42	441818	440517.33	881.53	442697	440184.17	1081.33	443043	440746.2	1005.94
		2op	442044	440109.43	1000.97	442440	440036.7	1095.73	442135	440438.23	909.06	443435	440388.1	1158.73
	50	rnd	441920	440422.4	901.25	442042	440388.63	1070.29	442472	441043.5	803.57	441963	440586.03	835.76
	20	rnd	441781	439900.83	1024.68	442322	440359	1049.4	441865	440320.57	1042	442338	440193.47	889.27
		2op	442092	440205.73	1066.86	442022	440293.63	882.01	441857	440593.87	881.8	442519	440632.07	1014.91

Table A.2028: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	442164	439578.37	1440.17	441746	439505.37	1129.34	442308	439393.07	1177.64	442208	440484.37	1083.15
		2op	439048	438453.63	406.79	439293	438411.27	482.33	440437	439048.73	652.11	442361	440424.07	879.89
	50	rnd	441264	439109.43	1102.07	440748	439124.63	1094.23	441518	439462.73	1041.35	441692	439678.93	1031.16
51	20	rnd	439010	438382.17	364.81	439729	438447.8	564.71	440270	438996.93	562.07	441641	440055.27	684.68
		2op	440972	439021.2	1293.32	440947	438846.03	954.84	441074	439307.97	1159	442277	439329.1	1268.57
	50	rnd	439246	438340.33	422.09	439662	438502.9	543.22	440424	438678.1	710.85	441304	439478.47	753.12
	20	rnd	441296	438919.9	1188.65	442269	439621.1	1226.13	442385	439482.3	1145.19	441705	439920.47	958.48
		2op	439167	438313.17	369.14	439889	438526.03	468.61	439540	438475.5	464.49	440452	439278.27	706.85

Table A.2029: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	442423	440214.83	952.86	442358	439959.33	1185.69	442413	440179.8	992.32	441883	440218.1	905.88
		2op	442515	440248.83	1066.95	442622	440099.03	1265.42	441491	440414.6	684.97	442688	440620.17	1070.59
	50	rnd	441615	440016.4	840.48	441729	439750.5	1035.9	442248	440298.77	1000.38	442168	440017.73	1284.1
51	20	rnd	442724	440207.5	1196.29	442229	440472.27	970.86	442230	440378.2	802.1	442703	440406.13	926.76
		2op	442064	440523.67	769.79	442276	440395.37	1182.84	442205	440483.5	1061.64	443089	440425.9	1335.76
	50	rnd	441822	440119.2	924.99	442761	440633.93	919.19	442670	440612.77	979.21	442414	440785.23	887
	20	rnd	442389	440339.17	1024.29	442184	440458	1051.48	442192	440387.6	744.89	442127	440519.73	1061.12
		2op	442039	440508	1029.32	442416	440337.03	1172.45	442719	440818.07	948.45	442789	440663.4	1061.58

Table A.2030: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441770	439412.5	1119.81	441772	439385	1240.53	441220	439146.83	1236.72	442130	440163.37	1068.97
		2op	439342	438556.07	360.37	439871	438819.33	569.32	441170	439165.1	669.63	441764	440277.43	829.9
	50	rnd	441369	439360.7	970.13	442050	439369.43	1122.41	441952	439335.17	1237.72	441565	439481.5	862.71
51	20	rnd	439760	438495.13	518.71	439473	438390.77	452.79	440142	439008.63	650.56	441467	439889.73	876.39
		2op	442115	439170.17	1311.55	441375	439305.83	1392.65	441510	438875.23	1179.53	441578	439366.1	1332.1
	50	rnd	439117	438360.6	442.56	439662	438422.37	603.98	440177	438791.67	658.98	441265	439472.07	667.46
	20	rnd	441926	439382.5	1077.72	442227	439187.4	1205.16	441841	439525.77	1015.83	441069	439152.37	1245.47
		2op	439040	438266.63	385.98	439017	438334.13	365.44	439711	438528.53	582.98	440649	439224.27	665.07

Table A.2031: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	442268	440331.23	1005.24	440223	438748.57	1058.61	441095	438879.47	1143.46	442190	438669.87	1383.77
		2op	441656	439947.67	785.49	440806	438438.57	1412.15	441857	439184.2	1367.15	440208	438466.83	1021.11
	50	rnd	442564	440165.53	1205.18	441508	438779.23	1426.55	441263	438970.77	1022.29	440858	438839.07	826.82
51	20	rnd	441517	440151.17	1037.72	440223	438355.53	1277.08	441148	438739.17	1366.47	441549	438891.53	1158.3
		2op	442363	440213.07	968.89	441771	439189.63	1372.68	440614	439130.73	931.91	440509	438648.87	1000.08
	50	rnd	440772	439457.87	637.75	440970	439463.57	910.78	441779	438736.57	1407.3	442087	439039.63	1215.86
	20	rnd	442689	440208.43	1131.23	441213	439111.63	1338.92	441525	438974.87	1481.46	441045	438747.87	1229.23
		2op	441962	440012.57	783.91	441148	439021.37	1177.22	441304	438522.37	1347.11	441682	438682.73	1343.14

Table A.2032: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440746	439040.93	1241.95	440462	438703.1	1172.44	441216	438997.57	1261.68	440563	438699.8	1356.11
		2op	439101	438340.83	384.91	441247	439096.07	1400.47	441057	439188.1	903.68	440779	438671.07	1342.77
	50	rnd	441262	439283.43	1150.05	440555	439210.4	1016.46	441216	439152.13	1255.74	440486	438413.77	1138.32
51	20	rnd	439515	438361.97	397.52	441059	439518.63	1001.05	441406	439131.83	1219.92	441271	438734.9	1109.58
		2op	441626	439398.77	1229.53	441899	439304.27	1261.63	440856	439085.6	1101.11	441212	439132.63	1353.49
	50	rnd	439298	438319.93	393.25	441037	438891.37	1141.82	441760	438912.33	1335.36	440401	438397.93	1061.67
	20	rnd	441146	439291.83	1180.87	442101	440148.77	1022.94	441181	439287.47	1106.96	440643	438832.9	772.88
		2op	439101	438232.5	332.15	442760	440147.03	860.43	441181	438734.57	1070.19	440640	438892.73	1220.93

Table A.2033: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115944	115297.1	448.83	116241	115343.53	562.03	116224	115399.53	455.27	116159	115467.63	418.99
		2op	116348	115627.13	375.2	116286	115767.3	349.93	116229	115437.07	378.02	116317	115728.77	355.79
	50	rnd	115972	115327.1	337.69	116236	115467.7	307.71	116100	115425.87	454.48	116287	115187.83	354.27
51	20	2op	116107	115349.53	393.35	116292	115531.93	340.11	116412	115661.2	415.55	116004	115587.07	386.42
		rnd	116050	115376.8	434.67	116133	115428.97	419.65	116213	115456.3	415.99	115997	115301.57	392.03
	50	2op	116310	115693.43	300.9	116270	115760.3	299.12	116345	115760.53	311.84	116083	115698.07	256.2
	20	rnd	116317	115515.77	499.9	116276	115462.77	464.65	116123	115402.6	379.42	116101	115496.8	375.44
		2op	116391	115748.07	365.12	116175	115711.53	336.38	116431	115756.4	405.89	116191	115644.1	324.91

Table A.2034: *j02459_7*: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	116017	115177.67	438.12	115820	115002.9	454.18	116310	115210.2	479.11	115652	115145.93	374.31
		2op	116365	115684.8	248.55	116075	115582.27	280.94	116325	115669.17	290.02	116177	115723.8	309.17
	50	rnd	115821	115048.93	474.29	115872	115009.4	457.49	116167	115224.17	433.47	116475	115408.7	451.32
51	20	2op	115987	115586.63	235.83	116078	115658.4	275.76	116011	115542.83	233.81	116126	115663.03	286.36
		rnd	116242	115031.1	658.33	116434	115442	401.29	115679	114903.07	402.06	116247	115294.57	350.09
	50	2op	115990	115563.23	191.17	116487	115768.3	254.11	116041	115587.97	262.37	115977	115590.53	172.55
	20	rnd	116066	115119.6	471.17	116299	115423.2	584.08	116243	115145.03	484.3	115799	115008	475.86
		2op	115921	115576.53	191.96	116452	115845.33	172.17	116196	115547.17	256.05	116078	115597.17	222.37

Table A.2035: *j02459_7*: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115996	115341.73	422.29	115998	115344.2	420.7	116091	115456.53	396.98	116303	115412.8	485.38
		2op	116354	115604.67	376.95	116294	115469.53	413.91	116305	115424	401.95	116167	115472.9	406.62
	50	rnd	116228	115391.4	466.15	115996	115140.03	542.34	115933	115260.63	415.47	115968	115379.6	363.54
51	20	2op	116328	115527.4	412.82	116247	115477.97	454.74	116438	115351.17	454.53	116040	115498.37	325.74
		rnd	116069	115441.5	390.16	116323	115445.07	600.73	116404	115443.53	493.71	116227	115442.53	437.5
	50	2op	116313	115720.3	410.82	116211	115716.47	339.28	116272	115628.5	325.09	116263	115681.13	368.81
	20	rnd	116045	115475.53	393.37	116432	115530	422.38	116356	115418.27	415.29	116282	115382.67	507.4
		2op	116424	115714.3	305.48	116424	115643.1	363.36	116244	115718.7	346.62	116405	115774.27	325.73

Table A.2036: *j02459_7*: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	116006	115168.5	440.18	116087	115262.33	494.64	116011	115319.1	434.37	116277	115358.4	480.45
		2op	116083	115648.27	181.65	116006	115562.23	235.57	116110	115516.37	306.77	116233	115727.87	329.55
	50	rnd	116055	115067.9	497.79	115943	115280.03	437.19	116411	115132.1	474.26	116099	115144.83	533.97
51	20	2op	116187	115603.07	232	116139	115604.37	259.02	116047	115487.97	266.85	116298	115725.1	330.61
		rnd	116017	115154.1	585.31	116047	115333.13	481.44	115774	115114.67	390.8	116247	115243.9	542.17
	50	2op	116082	115608.03	259.67	116178	115822.1	220.27	116162	115585.53	235.23	116001	115660.8	219.39
	20	rnd	116044	115153.33	526.21	116296	115619.8	395.46	116080	115132.93	527.16	116009	115128.97	453.25
		2op	116327	115667.53	228.51	116487	115834.23	207.38	116082	115571.93	243.17	116038	115527.3	276.39

Table A.2037: *j02459_7*: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115990	115371.07	339.66	116095	114855.77	698.99	116016	114857.57	519.14	115739	114933.1	519.52
		2op	116302	115690.3	339.27	115758	114786.6	554.4	115947	114925.37	566.58	116028	114879.07	657.77
	50	rnd	115914	115295.17	339.69	115841	114747.8	639.14	115766	114850.97	524.23	115865	114797.2	512.37
51	20	2op	116298	115767.93	305.42	115575	114838.77	444.56	115896	114885.63	565.25	115780	114948.4	516.33
		rnd	116241	115447.07	426.89	115972	114892.87	572.19	115892	114890.53	505.92	116036	114788.93	723.41
	50	2op	116383	115748.73	277.31	115933	114990.27	515.52	115663	114858.93	671.51	116290	114964.27	527.14
	20	rnd	116147	115503.13	350.67	116049	114963.37	473.19	115998	115058.27	487.82	115835	114680.73	541.72
		2op	116442	115945.9	256.63	115790	114863.93	504.69	116284	115173.77	473.78	115930	115000.97	563.83

Table A.2038: *j02459_7*: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115930	115118.9	398.45	115956	114885.87	509.08	115810	114826.77	479.09	115876	114720.97	646.14
		2op	116352	115640.07	276.99	116039	115044.23	585.65	116211	114941.43	560.73	115890	114854.6	490.6
	50	rnd	115846	115171.67	370.73	115999	115189.63	428.33	115837	115043.37	435.17	115803	115028.8	408.25
51	20	2op	116018	115647.43	224.72	116240	115246.53	661.85	116190	114987.7	520.52	116017	114881.27	719.72
		rnd	116116	115195.97	524.34	116123	115077.47	563.55	116066	115032.87	499.25	115807	115003.07	475.69
	50	2op	116038	115643.2	219.92	115709	115027.33	427.92	116000	115101.7	512.37	115845	114937.77	493.16
	20	rnd	116171	115112.43	551.37	116261	115450.37	420.36	116139	114992.47	542.49	116026	114961.57	553.08
		2op	116091	115686.87	210.99	116178	115572.63	353.09	116201	114903.3	539.92	116055	114974.7	607.45

Table A.2039: *j02459_7*: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38560	38331.5	150.18	38591	38238.23	203.63	38585	38296.3	176.58	38527	38268.13	168.14
		2op	38552	38278.47	201.49	38505	38293.03	143	38547	38315.1	163.83	38507	38208.2	122.91
	50	rnd	38570	38311.47	189.3	38681	38294.23	202.74	38660	38265.53	225	38531	38189.97	214.54
51	20	rnd	38576	38348.37	125.09	38569	38337.47	154.86	38530	38338.6	171.18	38547	38271.93	144.41
		2op	38645	38325.57	157.63	38624	38334.4	174.31	38652	38335.33	194.7	38630	38361.27	161.95
	50	rnd	38530	38365.4	97.71	38511	38361.7	77.84	38569	38403.6	104.44	38584	38329.63	146.63
	20	rnd	38538	38321.87	127.58	38683	38377.73	139.06	38666	38378.7	167.19	38672	38320.97	169.81
		2op	38550	38377.4	87.86	38620	38349.67	111.05	38526	38297.77	132.35	38562	38311.93	149.96

Table A.2040: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38562	38309.93	163.45	38629	38420.6	132.68	38581	38346.9	163.88	38654	38356.87	166.64
		2op	38418	38369.6	63.43	38437	38414.6	12.1	38557	38397.27	89.75	38682	38406.77	126.12
	50	rnd	38665	38290.63	211.15	38636	38401.13	179.25	38642	38293.2	200.25	38664	38369.4	149.31
51	20	rnd	38414	38390.4	45.55	38442	38426.7	14.96	38538	38420.67	50.38	38587	38446.3	93.08
		2op	38566	38326.23	158.73	38694	38428.67	142.94	38650	38409.73	115.55	38684	38292.73	236.6
	50	rnd	38437	38390.2	51.63	38442	38429.93	13.63	38520	38414.13	24.61	38557	38421.27	65.81
	20	rnd	38681	38313.93	204.16	38690	38440.33	161.51	38685	38395.7	160.53	38616	38310.4	159.16
		2op	38432	38387.6	50.47	38442	38437.27	9.99	38529	38417.83	24.62	38524	38414.03	61.6

Table A.2041: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38630	38324.8	223.05	38644	38313.67	170.12	38678	38308.53	187.2	38589	38260.13	234.15
		2op	38541	38329.43	137.94	38552	38279.3	174.27	38592	38340.8	168.83	38444	38184.53	162.31
	50	rnd	38653	38301.13	158.92	38652	38328.77	173.98	38612	38336.4	186.98	38579	38226.97	210.14
51	20	rnd	38504	38303.53	147.16	38684	38319.1	197.01	38507	38265.3	153.02	38570	38272.93	196.31
		2op	38627	38382.63	166.41	38535	38362.53	123.53	38538	38276.03	198.08	38503	38287.67	114.86
	50	rnd	38511	38360.7	89.45	38507	38384.93	57.98	38545	38348.6	132.28	38571	38340.73	148.29
	20	rnd	38618	38338.9	162.63	38610	38397.87	135.77	38622	38333.4	167.66	38633	38336.67	185.33
		2op	38556	38387.9	94.14	38491	38363.37	77.29	38582	38378.87	111.03	38562	38353.73	147.25

Table A.2042: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38663	38370.77	182.77	38681	38447.07	145.99	38679	38235.33	284.02	38679	38309.83	188.5
		2op	38437	38378	66.17	38532	38420.5	25.27	38519	38392.43	69.09	38543	38404.5	100.8
	50	rnd	38509	38280.87	152.62	38681	38423.07	181.85	38639	38387.97	149.84	38634	38371.83	192.75
51	20	2op	38414	38381.07	55.6	38442	38427.63	14.96	38552	38404.13	53.47	38551	38392.6	106.07
		rnd	38635	38350.67	169.92	38634	38449.2	108.88	38630	38357.87	165.64	38569	38300.4	174.13
	50	2op	38441	38396.47	47.5	38442	38426.37	13.93	38442	38410.1	14.4	38533	38427.03	60.56
	20	rnd	38662	38320.27	193.2	38635	38444.7	121.29	38644	38429.73	127.24	38655	38343.2	185.37
		2op	38414	38384.17	55.13	38442	38433.63	11.66	38442	38417.33	15.47	38557	38407	76.63

Table A.2043: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38642	38395.6	133.56	38590	38198.03	191.5	38543	38221.77	160.51	38634	38191.2	254.32
		2op	38482	38394.4	51.63	38551	38213.63	185.63	38504	38192.5	202.2	38518	38246.63	161.81
	50	rnd	38636	38369.8	121.53	38553	38204.17	215.66	38674	38131.9	242.85	38447	38189.2	156.22
51	20	2op	38504	38393.63	52.72	38633	38140.67	310.8	38558	38167.3	269.31	38662	38191.53	203.64
		rnd	38604	38365.43	145.84	38557	38159.13	202.76	38622	38148.93	239.2	38653	38190.33	171.45
	50	2op	38442	38425.17	13.49	38575	38144.47	243.61	38531	38157.63	154.5	38667	38206.97	171.49
	20	rnd	38572	38375.83	163.34	38635	38263.97	195.07	38576	38168.83	190.82	38611	38178.9	251.32
		2op	38442	38434	12.27	38612	38160	192.98	38512	38169	205.48	38401	38128	173.91

Table A.2044: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38683	38355.23	162.95	38637	38258.43	219.62	38574	38261.23	187.82	38552	38204.7	207.52
		2op	38414	38405.87	6.42	38481	38123.67	183.4	38684	38200.2	231.71	38562	38213.7	208.8
	50	rnd	38695	38393.23	156.29	38614	38320.7	177.5	38669	38223.47	254.73	38660	38225.8	220.97
51	20	2op	38432	38410.9	5.97	38514	38221.3	216.27	38565	38157.43	247.67	38532	38200.6	220.52
		rnd	38636	38375.5	140.32	38681	38265.2	223.8	38535	38229.4	216.52	38572	38225.67	226.18
	50	2op	38437	38414.2	11.4	38592	38254.03	204.99	38653	38208.33	195.48	38689	38123.2	295.45
	20	rnd	38652	38400.07	122.41	38626	38419.87	156.09	38538	38243.4	204.27	38552	38177.4	203.76
		2op	38437	38411.47	6.59	38580	38422.8	85.72	38435	38144.9	219.81	38586	38196.17	210.97

Table A.2045: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47957	47644.53	193.34	48019	47679.67	179.95	48018	47636.07	217.79	47977	47685.6	194.61
		2op	47888	47661.33	162.64	47852	47655.37	182.62	47819	47608.27	196.9	47843	47563.9	227.22
	50	rnd	48050	47722.9	231.1	47977	47692.2	174.95	48018	47637.77	220.79	47901	47619.3	190.04
51	20	rnd	47912	47601.63	237.38	47918	47647.67	210.77	47947	47682.23	137.18	47946	47677.27	181.57
		2op	47830	47635.93	151.03	47830	47635.37	156.98	47878	47673.6	127.67	47814	47632.67	164.02
	50	rnd	47948	47635.8	191.14	47949	47679.57	195.04	48021	47677.9	193.34	47864	47613.23	174.1
		2op	47814	47648.33	120.21	47814	47640.4	149.55	47961	47635.57	192.99	47830	47653.17	125.53

Table A.2046: *m15421_6*: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47887	47668.13	177.16	47961	47614.57	226.7	47977	47685.23	215.06	47958	47605.43	207.68
		2op	47758	47561.93	196.69	47758	47748.93	9.76	47960	47599.4	186.92	47951	47646.87	162.78
	50	rnd	48052	47585.3	267.38	47976	47691.67	209.51	47860	47598.5	211.79	47943	47647.73	185.01
51	20	rnd	47758	47558.13	182.44	47758	47756.47	3.64	47819	47574.57	180.47	47924	47617.63	195.59
		2op	47934	47585.63	242.77	47977	47716.77	167.2	47958	47617.57	288.57	47943	47650.17	244.34
	50	rnd	47758	47586.27	176.39	47758	47757.4	1.22	47758	47664.83	146.24	47798	47593.6	174.62
		2op	47864	47498.3	244.8	47943	47612.63	239.93	47974	47612.73	231.18	47897	47558.87	215.56
		2op	47758	47519.23	163.37	47758	47756.9	1.47	47758	47745.07	11.91	47793	47478.5	155.83

Table A.2047: *m15421_6*: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48034	47670.9	195.95	47948	47699.93	170.42	48026	47705.03	192.6	48021	47668.73	190.33
		2op	47776	47622.63	121.63	47892	47640.07	186.44	47852	47641.97	141.24	47821	47612.8	165.27
	50	rnd	48052	47582.47	280.39	47961	47722.13	159.79	47976	47655.37	218.54	48036	47651.9	193.61
51	20	rnd	47830	47679	145.71	47830	47599.3	151.1	48032	47641.67	162.26	47830	47520.43	198.6
		2op	47977	47666.4	210.02	47924	47676.73	202.98	48048	47705.3	206.11	48002	47634.1	176.79
	50	rnd	47810	47666.33	111.16	47930	47670.9	125.56	47814	47651.03	107.5	47814	47604.4	128.17
		2op	47960	47688.47	184.07	47973	47649.63	242.28	47949	47694.43	181.86	48022	47704.7	194.81
		2op	47852	47709.7	102.94	47830	47661	122.71	47814	47690.67	84.67	47924	47612.2	143.63

Table A.2048: *m15421_6*: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47923	47606.6	228.31	48030	47647.57	224.32	47939	47606.67	231.03	47974	47656.8	195.23
		2op	47758	47627.1	164.19	47758	47738.7	53.01	47758	47589.97	161.44	47960	47646.53	142.76
	50	rnd	47830	47514.73	281.53	47923	47637.73	211.47	48002	47597.97	271.3	48019	47687.33	222.89
51	20	rnd	47758	47536.6	189.34	47758	47757	1.98	47798	47598	166.29	47758	47574.27	135.72
		2op	48052	47614.47	261.78	47978	47683.53	227.66	47968	47668.13	178.03	47941	47648.73	185.86
	50	rnd	47758	47525.9	175.93	47758	47757.2	1.35	47830	47627.77	177.46	47758	47583.43	167.41
	20	rnd	47877	47521	236.2	47864	47611.53	192.33	48041	47643.37	262.47	47939	47636.77	209.94
		2op	47758	47561.63	183.87	47758	47757.2	1.35	47758	47750.07	14.1	47758	47563.17	166.47

Table A.2049: *m15421_6*: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47961	47704.4	158.46	47885	47524.33	214.92	47829	47558.77	180.31	47872	47519.6	218.51
		2op	47758	47663.7	121.22	48007	47583.2	201.86	47929	47520.53	223.95	47821	47497.03	259.93
	50	rnd	48034	47746.17	189.55	47920	47519.43	277.61	47833	47499.53	273.54	47943	47529.27	271.4
51	20	rnd	47821	47672.53	136.07	47832	47514.33	256.72	47828	47526.03	230.84	47818	47576	204.84
		2op	47972	47612.6	258.69	47957	47582.23	249.45	47879	47544.7	200.17	47978	47600.9	211.05
	50	rnd	47758	47750.1	9.82	47916	47559.87	199.78	47836	47574.43	211.58	47823	47563.53	227.91
	20	rnd	47879	47632.07	205.75	47866	47603.37	202.61	47843	47458.97	258.71	47884	47536.07	229.67
		2op	47758	47752.47	9.23	47830	47534.7	240.13	47821	47493.9	223.65	47835	47562.03	209.5

Table A.2050: *m15421_6*: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48036	47572.5	290.64	48032	47525.5	290.17	47908	47582.1	182.23	47930	47459.97	314.01
		2op	47758	47596.7	170.5	47962	47586.8	178.39	47945	47574.6	234.57	47959	47600.4	237.94
	50	rnd	47973	47630.17	227.19	48039	47645.7	231.14	48052	47639.67	195.52	47872	47511.47	263.44
51	20	rnd	47758	47698.13	127.58	48039	47665.37	168.47	47836	47498.73	227.25	47827	47534.93	216.32
		2op	47961	47642.77	269.05	47998	47630.53	253.21	47913	47569.1	263.25	47956	47591.9	233.7
	50	rnd	47758	47741.87	61.61	47948	47579.2	224.9	47947	47669.27	184.46	47951	47565.93	186.58
	20	rnd	48052	47631.8	192.62	47939	47675.8	189.9	47959	47613.17	230.97	48023	47612.07	256.52
		2op	47758	47741.23	61.51	47885	47687.37	112.37	47976	47620.93	203.16	48036	47565.83	256.14

Table A.2051: *m15421_6*: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55116	54613.07	263.15	55051	54594.6	317.31	54978	54554.5	265.06	55002	54558.57	272.82
		2op	55058	54630.33	181.47	54970	54629.7	204.63	55055	54647.27	178.35	55152	54580.1	249.35
	50	rnd	55093	54520.6	345.48	55086	54644.83	243.92	55047	54606.63	280.75	55106	54610.3	341.31
51	20	rnd	55004	54592.63	269.93	54907	54640.03	227.46	54983	54655.37	271.39	54997	54641	180.42
		2op	54970	54574.77	284.37	55169	54510.43	301.08	55075	54576.83	217.57	55057	54536.83	277.58
	50	rnd	54932	54640.83	144.27	54932	54623.77	157.99	55028	54693.33	146.13	54950	54730.13	140.13
	20	rnd	54942	54613.63	226.56	55095	54682.3	255.86	54935	54562.27	256.64	55148	54562.13	299.24
		2op	54967	54683.27	139.97	54942	54639.07	140.67	54942	54629.33	163.01	54930	54712.9	189.79

Table A.2052: *m15421_7*: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54793	54328.47	247.58	55072	54564.03	383.69	54960	54546.87	247.74	54946	54480.53	278.04
		2op	54753	54724.47	28.51	54919	54739.03	55.96	54959	54753.2	115.33	54956	54711.03	176.2
	50	rnd	54895	54460.1	319.08	55002	54605.67	274.62	54998	54449.17	407.62	54970	54556.37	237.13
51	20	rnd	54939	54736.03	43.04	54756	54746.9	5.76	54942	54737.33	86.85	54891	54709.63	99.06
		2op	55010	54426.13	307.79	55020	54701.1	224.15	55170	54525.7	248.39	55038	54550.37	298.77
	50	rnd	54754	54725.3	30.29	54771	54750.4	7.41	54921	54727.07	67.56	55071	54757.83	131.64
	20	rnd	54961	54531.8	238.89	55018	54727.2	223.87	55010	54442	374.24	54787	54427.73	244.63
		2op	54754	54736.17	20.39	54754	54751.13	4.65	54959	54746.5	70.76	54983	54755.77	115.28

Table A.2053: *m15421_7*: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55135	54595.4	262.93	54969	54585.57	257.38	55021	54593.37	270.25	54860	54483.73	295.05
		2op	55082	54600.43	264.09	54968	54620.5	223.33	55071	54714.43	165.93	54938	54630.4	225.47
	50	rnd	54935	54531.73	286.32	55071	54533.2	321.09	54993	54590.73	242.52	55087	54567.1	266.19
51	20	rnd	55071	54616.9	218.61	55119	54568.53	241.93	54964	54655.53	227.72	55005	54610.67	206.13
		2op	55096	54570.2	300.97	55037	54543.8	306.87	55025	54571.57	289.32	55154	54527.93	306.26
	50	rnd	54939	54613.47	240.92	54939	54646.3	197.9	55018	54671.2	169.7	55033	54677.53	214.11
	20	rnd	55038	54638.1	252.02	55035	54646.13	281.68	54964	54568.27	289.1	55155	54641.73	264.27
		2op	54905	54610.6	203.95	55130	54687.33	205.66	54957	54612.4	214.34	54938	54622.53	234.66

Table A.2054: *m15421_7*: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55013	54437.77	323.58	55017	54627.3	245.42	54856	54514.87	254.4	54968	54591.37	244.48
		2op	54959	54737.67	65.72	54968	54767.43	78.42	54924	54726.87	99.49	54967	54718.83	154.23
	50	rnd	54901	54429.47	370.07	55044	54648.67	275.08	54880	54322.63	320.21	54971	54505.13	286.16
51	20	rnd	54754	54729.83	25.63	54756	54746.27	7.52	54955	54766.4	84.15	54907	54739.97	89.79
		2op	54934	54444.97	292.99	55017	54680.27	241.86	55050	54467	312.1	54890	54532.1	250.69
	50	rnd	54939	54721.93	63.84	54756	54748.07	8.5	54964	54745.47	108.83	54944	54732.93	115.72
	20	rnd	54974	54478.87	314.79	55133	54703.57	291.11	54972	54533.4	271.67	54960	54486.83	304.32
		2op	54754	54734.47	18.15	54771	54752.47	5.61	54959	54716.83	57.1	54997	54720.5	89.99

Table A.2055: $m15421.7$: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55039	54646.4	233.41	54868	54367.9	275.02	54826	54393.03	294.76	54952	54422.3	356.5
		2op	54989	54715.57	127.63	54853	54402.47	339.58	54814	54287.27	380.2	55164	54374.23	411.67
	50	rnd	55125	54702.1	212.6	54856	54299.87	305.43	54738	54257.53	379.76	54951	54365.1	339.62
51	20	rnd	54883	54667.8	125.88	54895	54337.73	357.97	55023	54400.83	328.31	55088	54385.8	424.8
		2op	54981	54605.07	308.08	54941	54498.97	296.23	54909	54413.23	338.51	54874	54351.5	332.58
	50	rnd	54754	54728.9	20.14	54821	54423.33	283.23	54915	54431.07	277.43	55004	54415	397.78
	20	rnd	55168	54752.47	221.93	55129	54516.43	392.14	54901	54402	346.76	54931	54359.47	325.74
		2op	54754	54738.9	22.33	54872	54439.73	264.13	54862	54366.53	394.38	54993	54422.53	320.02

Table A.2056: $m15421.7$: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54916	54462.3	417.34	54925	54486.17	257.63	55008	54400.23	356.21	55050	54435.63	352.34
		2op	54754	54740.27	14.61	54896	54465.5	285.57	54933	54380.9	425.33	54994	54473.13	218.86
	50	rnd	54962	54596.3	251.39	54930	54655.77	184.48	55002	54494.73	323.56	54903	54458.43	299.18
51	20	rnd	54745	54742.67	7.62	54926	54590.13	186.13	54833	54504.37	277.22	54934	54443.8	276.28
		2op	55119	54496.13	299.05	54987	54487.43	270.25	54980	54497.93	310.77	54952	54395.23	366.61
	50	rnd	54756	54747.9	4.49	54960	54529.77	275.1	54954	54541.43	286.23	54937	54450.47	326.7
	20	rnd	54964	54584.7	245.25	54992	54726.4	174.7	54891	54529.2	299.82	54902	54307.23	412.81
		2op	54754	54746.8	3.66	54932	54679.53	134.3	54876	54494.2	310.78	54921	54564.17	238.93

Table A.2057: $m15421.7$: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11242.7	175.1	11478	11308.03	124.1	11478	11245.03	127.07	11478	11225	149.46
		2op	11411	11131.1	128.89	11411	11295.3	62.81	11346	11180.13	138.2	11346	11183.2	122.94
51	20	rnd	11478	11286.1	148.15	11478	11338.13	104.33	11478	11292.23	123.47	11478	11259.97	124.9
		2op	11305	11138.3	102.1	11394	11292.17	61	11308	11182.57	112.14	11346	11158.8	144.67
51	20	rnd	11478	11207.17	155.05	11478	11262.57	129.55	11478	11264.77	129.74	11478	11226.4	144.17
		2op	11346	11063.27	92.14	11305	11141.97	67.62	11373	11237.63	82.84	11346	11099	99.88
51	20	rnd	11478	11254.47	145.18	11478	11329.5	112.47	11478	11335.6	109.75	11478	11230.2	170.25
		2op	11346	11038.97	70.95	11411	11236.5	93.2	11394	11288.73	53.43	11305	11116.53	98.9

Table A.2058: *x60189_4*: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11372	11166.37	180.83	11478	11276.93	100.41	11478	11290.67	158.36	11478	11242.93	158.34
		2op	11109	11033.33	40.79	11285	11144.2	71.6	11109	11107.47	8.4	11305	11103.8	76.19
	50	rnd	11413	11173.3	146.44	11478	11235.73	141.51	11478	11254.03	155.97	11478	11264.97	139.18
		2op	11109	11027.67	35.09	11285	11156.97	74.95	11285	11131.5	58.53	11151	11071.23	49.88
51	20	rnd	11411	11155.13	148.03	11478	11335.13	101.16	11478	11267.13	164.61	11478	11272.33	124.35
		2op	11109	11021.07	29.05	11256	11113.9	26.84	11285	11134.47	58.12	11109	11109	0
	50	rnd	11411	11119.73	160.4	11478	11289.93	123.35	11478	11242.43	169.44	11478	11287	128.28
		2op	11109	11020.6	30.71	11109	11109	0	11305	11165.5	82.4	11109	11109	0

Table A.2059: *x60189_4*: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11236.8	129.48	11478	11295	117.28	11478	11273.43	132.99	11478	11185.77	176.68
		2op	11348	11148.2	126.42	11394	11289.77	40.74	11346	11139.8	152.2	11411	11196.6	129.02
	50	rnd	11478	11211.97	133.72	11478	11319.7	98.29	11478	11258.63	119.45	11478	11241.63	175.45
		2op	11394	11159.7	132.04	11411	11273.57	66.16	11373	11218.33	100.66	11478	11135.27	147.03
51	20	rnd	11478	11225.5	150.41	11478	11232.9	124.29	11478	11265.4	105.05	11478	11191.47	168.21
		2op	11109	11049.2	42.11	11305	11131.4	68.33	11373	11201.4	96.36	11285	11093.47	58.82
	50	rnd	11478	11262.1	170.76	11478	11329.53	120.42	11478	11337.07	98.02	11478	11294.63	123.95
		2op	11478	11109.5	106.81	11373	11254.47	83.73	11373	11289.6	42.78	11346	11096.17	110.7

Table A.2060: *x60189_4*: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11413	11186.03	169.57	11478	11302.2	102.8	11478	11248.87	140.32	11478	11254	127.76
		2op	11109	11017.53	25.78	11285	11146.2	68.94	11305	11115.53	35.78	11346	11079.67	96.03
	50	rnd	11343	11113.1	200.56	11478	11256.97	140.15	11413	11247.53	111.5	11478	11274.53	113.42
51	20	2op	11109	11027.2	35.33	11305	11174.63	82.89	11285	11124.67	48.01	11346	11088.37	67.14
		rnd	11411	11154.5	186.11	11413	11263.07	132.91	11478	11316.33	106.72	11478	11273.53	113.52
	50	2op	11109	11022	28.67	11109	11109	0	11305	11132.17	60.42	11109	11109	0
	20	rnd	11413	11230.27	109.03	11478	11262.4	136.1	11478	11286.13	139.69	11478	11296.7	129.29
		2op	11109	11022.73	33.75	11109	11109	0	11285	11155.03	71.83	11109	11109	0

Table A.2061: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11237.8	147.52	11413	11157.27	148.5	11478	11194.87	139.92	11478	11156.5	196.46
		2op	11109	11082.93	41.29	11478	11154.7	190.85	11394	11138.6	172.62	11372	11112.83	161.12
	50	rnd	11478	11223.17	146.8	11411	11136.4	147.79	11353	11140.53	120.09	11478	11174.9	165.73
51	20	2op	11256	11086.6	62.95	11411	11176.23	175.96	11411	11151.03	147.27	11478	11138.3	164.41
		rnd	11478	11244.43	134.22	11478	11229.9	165.52	11478	11166.7	195.14	11478	11213.3	166.94
	50	2op	11109	11084.47	41.38	11305	11218.57	92.56	11332	11165.5	135.17	11353	11158.93	119.95
	20	rnd	11478	11266.07	120.34	11478	11305.87	113.19	11478	11254.43	143.54	11478	11140.33	157.41
		2op	11305	11114.3	51.23	11346	11234.07	138.63	11478	11225.43	125.49	11372	11157.37	107.98

Table A.2062: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11413	11201.83	181.96	11478	11177.83	156.48	11478	11203.5	141.15	11478	11145.4	181.7
		2op	11109	11044.6	42.88	11346	11168.33	139.84	11372	11167.7	120.68	11394	11139	173
	50	rnd	11394	11210.1	131.37	11478	11262.97	147.93	11478	11198	139.74	11478	11175.33	195.65
51	20	2op	11109	11063	46.79	11394	11158.93	102.26	11346	11130.97	144.89	11478	11127.03	198.83
		rnd	11413	11192.23	168.93	11478	11224	132.16	11478	11200.6	153.09	11478	11182.9	146.28
	50	2op	11109	11084.47	41.38	11478	11172.13	149.6	11318	11147.37	97.14	11372	11099.43	147.69
	20	rnd	11413	11214.83	154.25	11478	11211.7	189.53	11478	11272.57	138.62	11353	11126.9	149.23
		2op	11109	11084.47	41.38	11346	11105.9	92.57	11346	11129.9	122.97	11478	11107.8	202.16

Table A.2063: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13889.77	132.72	14161	13989.67	118.8	14139	13915.8	121.54	14157	13920.63	117.45
		2op	14038	13925.33	77.48	14157	14021.63	55.53	14095	13905.2	80.99	14100	13887.73	117.64
	50	rnd	14157	13884.87	155.95	14137	13980.13	107.23	14161	13921.7	128.19	14127	13862.47	113.62
51	20	rnd	14133	13923.87	104.4	14157	14069.43	67.99	14161	13953.93	73.93	14097	13898.5	103.49
		2op	14133	13889.9	169.95	14157	13944.2	111.83	14161	13959.97	128.57	14139	13901.4	156.98
	50	rnd	14038	13896.7	86.95	14157	14003.77	40.99	14038	13992.17	30.31	14038	13956.8	51.97
	20	rnd	14139	13885.73	169.78	14161	13993.83	115.61	14161	13984.9	129.37	14139	13881.23	155.64
		2op	14038	13933.3	77.66	14157	14035.87	52.63	14157	14044.47	64.11	14038	13898.17	111.88

Table A.2064: $x60189_5$: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13870	159.75	14157	13984	152.63	14161	13932.37	163.57	14157	13865.7	173.72
		2op	13938	13774.17	61.13	14157	13979.8	46.63	13995	13972.3	22.39	14038	13879.57	112
	50	rnd	14133	13866.87	179.76	14137	13948.57	127.39	14161	13990.47	125.74	14157	13936.63	138.11
51	20	rnd	13938	13791.8	64.6	14157	14012.17	63.87	14038	13973.93	22	14001	13877.37	111.29
		2op	14161	13890.37	138.71	14161	13928.33	179	14161	13973.03	140.42	14161	13958.93	129.42
	50	rnd	13938	13803.1	78.63	14064	13984.57	31.46	14038	13973.37	22.08	14038	13891.97	87.19
	20	rnd	14161	13883.53	165.87	14161	13948.7	159.84	14161	14005.67	122.05	14161	13916.57	147.72
		2op	13827	13756.33	50.82	14038	13964.87	27.03	14157	14010.33	45.96	13995	13918.53	69.46

Table A.2065: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13877.03	183.84	14157	14001.07	108.8	14157	13879.47	138.63	14139	13861.13	141.13
		2op	14038	13923.33	91.46	14157	14022.83	73.93	14121	13849.73	155.62	14088	13890.4	130.89
	50	rnd	14139	13914.97	121.37	14157	14007.7	124.93	14133	13907.3	146.77	14133	13871.87	143.46
51	20	rnd	14038	13943.93	62.16	14157	14064.03	64.43	14133	13902.67	118.74	14062	13854.47	136.12
		2op	14137	13891.33	142.42	14137	13929.1	101.19	14161	13929.13	154.76	14157	13950	165.3
	50	rnd	14038	13879.93	88.38	14157	14010.87	51.85	14157	14009.37	50.38	14038	13933.33	93.58
	20	rnd	14157	13913.4	172.87	14161	14004.9	109.59	14161	14016.4	127.07	14137	13845.37	157.34
		2op	14038	13939.7	85.13	14133	14011.73	40.52	14157	14020.2	50.91	14133	13932.77	101.65

Table A.2066: $x60189_5$: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14137	13878.37	161.37	14161	14023.97	118.29	14161	13929.47	135.91	14157	13859.4	146.4
		2op	13938	13774.33	67.58	14157	13984.97	51	13995	13949.27	55.13	13995	13872.67	111.69
	50	rnd	14133	13864.33	165.27	14161	13938.13	141.93	14157	13999.8	106.2	14133	13903.4	127.99
51	20	rnd	13938	13780.67	66.37	14157	14001.9	53.62	14038	13963.93	31.57	14038	13881.9	102.3
		2op	14127	13852.37	196.11	14161	13957.13	159.71	14157	13949.03	143.6	14157	13937.2	137.04
	50	rnd	13932	13783.13	57.12	14157	13983	42.07	14005	13968.1	27.32	13995	13893.1	84.66
	20	rnd	14103	13899.23	134.03	14161	13939.17	172.31	14161	13965.33	142.15	14161	13975.97	130.3
		2op	13827	13777.53	53.79	14064	13965.87	46.13	14157	13993.13	53.23	13995	13905.43	74.16

Table A.2067: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13894.77	138.71	14121	13830.23	162.63	14127	13828.37	149.38	14099	13858.57	140.79
		2op	14038	13942.87	74.37	14121	13854.1	158.99	14133	13789.4	135.37	14105	13822.8	146.46
	50	rnd	14161	13889.37	161.44	14157	13840.8	185.1	14018	13765.13	164.96	14103	13825.83	171.21
51	20	rnd	14038	13980.97	60.2	14157	13873.93	160.08	14133	13830.57	185.81	14079	13801.63	177.61
		2op	14137	13904.77	146.86	14157	13971.5	115.07	14139	13897.37	130.2	14161	13866.03	171.71
	50	rnd	14038	13960.73	60.28	14094	13933.2	90.25	14133	13883.57	141.97	14119	13855	162.65
	20	rnd	14137	13910.7	117.33	14133	13943.67	128.93	14161	13914.8	156.06	14089	13819.23	155.71
		2op	14038	13983.57	36.44	14157	13993.73	76.16	14095	13870.07	141.39	14161	13841.87	161.19

Table A.2068: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13921.3	169.36	14157	13838.8	185.58	14102	13900.97	147.31	14095	13755.9	168.95
		2op	13948	13830.1	64.89	14157	13867.07	175.57	14127	13810.87	174.33	14100	13878.9	160.12
	50	rnd	14139	13948.6	187.77	14161	13944.33	147.8	14029	13819.2	153.93	14048	13811.37	148.2
51	20	rnd	13995	13834.63	55.15	14133	13922.03	120.82	14062	13904.43	108.45	14100	13813.17	170
		2op	14161	13953.43	129.72	14064	13867.8	120.61	14157	13885.53	185.26	14088	13845.9	122.23
	50	rnd	13995	13852.77	60.68	13997	13882.3	86.85	14038	13827.47	163.79	14103	13790.3	166.9
	20	rnd	14139	13976.7	115.81	14139	13937.97	93.88	14139	13935.8	145.4	14122	13784.47	164.42
		2op	13995	13848.2	49.23	14071	13927.7	68.05	14038	13933.7	103.45	14133	13804	212.01

Table A.2069: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18127	17941.9	118.42	18301	18003.23	141.11	18301	17988.53	172.93	18301	17960.6	161.28
		2op	18134	17981.87	89.58	18064	17988.87	36.45	18119	17929.7	141.8	18142	17918.4	118.83
	50	rnd	18175	17942.3	143.47	18301	18052.17	126.43	18125	17972.07	148.73	18196	17956.47	144.59
51	20	rnd	18017	17977.47	69.2	18142	18023.7	37.52	18142	17941.53	104.97	18142	17952.57	118.6
		2op	18184	17929.1	146.06	18171	18016.43	120.3	18301	17963.37	168.74	18176	17988.33	177.49
	50	rnd	18017	18001.17	20.78	18017	18015.7	6.09	18107	18004.23	25.27	18119	17984.17	55
	20	rnd	18114	17900.1	193.96	18132	17964.13	138.71	18156	17956.77	121.53	18181	17923.43	163.11
		2op	18017	18004.87	22.1	18064	18018.57	8.58	18064	18011.6	18.95	18051	17968.27	63.07

Table A.2070: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18143	17910.87	134.91	18216	17967.67	150.82	18172	17913.9	178.18	18172	17909.3	151.44
		2op	18017	18007.03	11.59	18017	18017	0	18017	18013.27	9.87	18074	17996.2	23.28
	50	rnd	18156	17903.73	114.78	18301	18044.57	132.56	18301	17912.87	210.31	18184	17895.4	183.73
51	20	rnd	18017	18007.03	11.59	18017	18017	0	18017	18017	0	18017	18003.53	16.63
		2op	18184	17894.9	185.83	18301	17907.73	172.12	18301	17947.13	174.37	18171	17935.23	154.3
	50	rnd	18017	18007.8	11.46	18017	18017	0	18017	18017	0	18017	18011.37	10.48
	20	rnd	18184	17947.03	158.71	18176	17897	153.5	18216	17987.6	155.31	18175	17942.17	151.46
		2op	18017	18006.27	11.67	18017	18017	0	18017	18017	0	18017	18009.13	13.23

Table A.2071: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17995.57	167.51	18301	17996.53	134.58	18165	17939.4	180.46	18170	17913.57	176.95
		2op	18090	17984.7	40.45	18064	17989.43	51.6	18142	17966.6	78.59	18142	17941.5	131.31
	50	rnd	18172	17957.73	115.32	18176	18018.77	88.39	18172	17927.57	131.34	18175	17949.63	153.35
51	20	rnd	18142	17995.47	66.44	18074	18012.87	26	18142	17936.8	102.95	18142	17915.53	156.02
		2op	18275	17962.23	123.14	18165	18010.77	121.07	18275	18003.4	133.43	18156	17964.83	118.96
	50	rnd	18142	18008.17	35.24	18017	18017	0	18090	18003.17	24.05	18046	17984.9	36.81
	20	rnd	18301	17998.77	134.19	18301	18014.2	130.94	18301	17980.7	137.4	18134	17905.1	173.65
		2op	18017	17997.3	42.37	18017	18016.8	1.1	18017	18007.47	18.38	18049	17920.87	112.38

Table A.2072: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18184	17920.9	164.44	18171	17997.93	162.82	18301	17939.37	164.07	18184	17943.37	169.59
		2op	18017	18003.77	13.63	18017	18017	0	18017	18011.83	10.9	18119	18004.07	28.79
	50	rnd	18172	17869.83	189.14	18301	18009.77	132.25	18172	17978.3	160.07	18142	17939.43	146.21
51	20	rnd	18017	18005.5	11.7	18017	18017	0	18017	18017	0	18017	18001.3	14.42
		2op	18175	17891.53	162.61	18186	17932.93	140.09	18301	18009.8	155.67	18109	17875.63	179.6
	50	rnd	18017	18010.1	10.72	18017	18017	0	18017	18017	0	18017	18003.97	13.99
	20	rnd	18142	17874.53	151.55	18301	17941.8	184.81	18165	18001.77	111.52	18301	17923.27	208.84
		2op	18017	18008.57	11.27	18017	18017	0	18017	18017	0	18017	18011.37	10.48

Table A.2073: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17968.27	148.68	18152	17920.13	146.89	18301	17931.9	189.14	18301	17859.37	216.89
		2op	18017	18017	0	18090	17855.2	167.34	18142	17841.77	174.12	18120	17819.33	220.85
	50	rnd	18152	17926.27	139.53	18176	17926.07	161.77	18114	17886.1	166.1	18193	17929.07	197.9
51	20	rnd	18017	18015.63	7.49	18186	17896.9	160.12	18120	17855.6	188.17	18186	17881.5	169.25
		2op	18181	17970.87	186.39	18301	17933.63	192.12	18181	17895.1	197.2	18266	17903.07	178.28
	50	rnd	18017	18017	0	18119	17941.3	112.09	18119	17907.53	151.52	18142	17903.73	154.88
	20	rnd	18176	18046.37	77.33	18144	17940.57	137.18	18216	17891.3	166.31	18136	17874.03	174.28
		2op	18017	18017	0	18142	17953.93	100.04	18105	17875.6	168.87	18301	17972.13	128.82

Table A.2074: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18156	17917.57	188.89	18266	17981.03	122.51	18301	17936.07	164.64	18301	17905.57	207.05
		2op	18017	18017	0	18301	17943.33	151.14	18150	17868.77	172.31	18193	17880.1	181.96
	50	rnd	18184	17919.23	122.16	18301	17979.6	174.89	18156	17893.13	178.58	18216	17841.27	210.51
51	20	rnd	18017	18016.23	4.2	18142	17952.6	96.61	18119	17913.27	120.72	18144	17843.43	186.72
		2op	18184	17966.23	144.68	18301	17954.7	187.71	18193	17878.47	195.6	18152	17867.8	191.61
	50	rnd	18017	18017	0	18292	17993.73	174.64	18170	17960.7	144.76	18159	17911.9	151.85
	20	rnd	18142	17938.87	147.49	18184	17940.03	148.5	18184	17951.37	177.77	18172	17894.57	192.91
		2op	18017	18017	0	18142	17985.47	105.41	18119	17968.97	79.12	18266	17885.5	168.18

Table A.2075: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21271	20965.1	157.88	21218	20978.63	147.1	21216	20996.7	128.37	21211	20932.57	172.75
		2op	21166	20888.37	124.06	21215	21016.6	111.18	21164	20915.03	159.11	21192	20967.23	143.03
	50	rnd	21210	20945.43	144.43	21190	21018.4	103.84	21271	20941.43	192.13	21200	20924.5	221.02
51	20	rnd	21218	20926.93	121.51	21193	21057.7	72.99	21215	20944	187.29	21206	20968.97	131.51
		2op	21203	20908.07	156.28	21196	20960.57	173.79	21175	20989.17	129.56	21207	20937.1	168.93
	50	rnd	21088	20860.57	78.03	21193	20956.07	105.8	21154	20867.67	101.8	21218	20941.33	112.54
	20	rnd	21245	20960.63	169.22	21196	20983.73	137.91	21206	20960.97	132.48	21165	20957.47	125.29
		2op	21025	20851.77	53.33	21187	21000.7	85.92	21166	20907.9	108.2	21169	20929.1	117.39

Table A.2076: $x60189.7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21209	20920.4	145.01	21172	20932.43	200.47	21138	20871.43	182.73	21211	20932.07	168.39
		2op	20829	20829	0	20997	20834.6	30.67	20987	20879.9	73.62	21174	20921.37	91.69
	50	rnd	21212	20895.03	198.54	21212	20899.77	198.59	21177	20914.73	200.15	21205	20941.93	173.09
51	20	rnd	20829	20829	0	20829	20829	0	20987	20834.23	28.85	20987	20857.3	66.14
		2op	21162	20911.67	162.01	21212	21001.97	132.39	21173	20941.37	152.29	21203	20954.63	152.05
	50	rnd	20829	20829	0	20829	20829	0	20829	20829	0	20987	20871.8	70.23
	20	rnd	21209	20928.57	180.12	21206	20917.43	214.95	21181	20990.67	118.5	21212	20942.77	177.14
		2op	20829	20829	0	20829	20828.8	1.1	20829	20828.8	1.1	20987	20850.8	54.45

Table A.2077: $x60189.7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21175	20920.27	201.46	21143	20943.87	146.01	21166	20893.43	192.62	21218	20949.63	213.75
		2op	21211	20919.6	154.7	21207	20909.8	126.21	21207	20968.07	147.47	21199	20960.13	141.75
	50	rnd	21235	20934.17	205.33	21268	21031.47	125.92	21193	20874.27	191.72	21155	20944.53	166.48
51	20	rnd	21217	20962.23	134.88	21193	21034.53	87	21199	20963.17	146.19	21189	20943.67	146.35
		2op	21190	20905.13	197.42	21161	20983.43	121.41	21203	20915.7	208.99	21190	20949.97	170.13
	50	rnd	21052	20861.2	71.12	21193	20953.93	116.55	21052	20855.57	64.04	21174	20941.27	100.53
	20	rnd	21180	20920.33	162.35	21196	21028.27	142.82	21233	20999.77	127.25	21193	20928.47	196.4
		2op	21120	20897.13	99.1	21193	21009.83	88.26	21154	20933.47	104.25	21178	20946.2	97.77

Table A.2078: $x60189.7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21210	20835.27	176.29	21212	20981.2	142.27	21212	20950.23	228.17	21165	20950.27	133.22
		2op	20829	20828.8	1.1	20829	20829	0	21089	20865.03	73.95	21147	20932.23	89.27
	50	rnd	21198	20912.87	182.99	21218	20987.9	135.72	21184	20888.1	206.41	21160	20905.73	163.94
51	20	rnd	20829	20829	0	20829	20828.8	1.1	20985	20838.67	37.41	21037	20896.33	76.21
		2op	21163	20934.03	154.81	21190	20936.33	191.67	21205	20916.6	183.26	21196	20933.03	157.19
	50	rnd	20867	20830.27	6.94	20991	20834.4	29.58	20829	20829	0	20987	20875.87	72.17
	20	rnd	21182	20908.83	187.72	21165	20914.2	179.56	21227	20981.93	156.73	21195	20924.23	210.45
		2op	20829	20829	0	20829	20828.8	1.1	20829	20828.8	1.1	20987	20849.67	53

Table A.2079: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21215	20905.07	167.84	21217	20864.9	223.91	21160	20839.03	239.35	21169	20850.47	177.29
		2op	21029	20844.4	46.94	21138	20843.27	238.64	21201	20848.8	212.74	21143	20808.1	222.14
	50	rnd	21271	20966.23	153.39	21077	20834.4	182.58	21123	20782.3	225.61	21211	20789.43	203.62
51	20	rnd	21025	20861.7	64.44	21207	20892.57	165.55	21122	20837.47	197.99	21107	20818.43	193.57
		2op	21203	20932.83	168.95	21196	20943.83	163.61	21118	20840.37	217.01	21166	20902.67	169.49
	50	rnd	20889	20831	10.95	21211	20936.93	185.96	21198	20846.83	219.7	21179	20888.93	174.68
	20	rnd	21196	20957.53	157.71	21212	20994.07	130.09	21169	20862.3	152.61	21152	20864.57	197.72
		2op	21193	20885.2	122.1	21199	21015.87	129.08	21187	20915	163.9	21145	20818.4	228.93

Table A.2080: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21215	20947.93	175.34	21156	20834.27	178.85	21195	20905.57	222.11	21169	20813.83	212.9
		2op	20829	20829	0	21138	20907.07	154.19	21204	20885.93	210.87	21142	20875.53	165.04
	50	rnd	21218	20881.77	233.35	21220	20924.2	185.24	21157	20908.13	180.86	21192	20910.2	168.79
51	20	rnd	20829	20829	0	21164	20917.13	132.61	21147	20944.57	141.26	21116	20877.97	162.48
		2op	21203	20889.43	213.15	21199	20892.23	198.13	21268	20925.17	197.39	21093	20864.8	147.91
	50	rnd	20829	20829	0	21101	20865.27	135.3	21170	20922.97	150.55	21195	20866.03	221.3
	20	rnd	21203	20876.77	177.48	21179	21012.97	141.27	21151	20944.73	156.74	21169	20902.3	161.9
		2op	20829	20829	0	21139	20876.23	87.02	21170	20924.23	121.58	21206	20820.27	189.12

Table A.2081: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.1	1.84	596	593.43	1.87	596	593.77	1.48	596	590.73	3.1
		2op	596	592.87	2.87	596	593.7	1.53	596	593.2	1.54	595	590.87	2.57
	50	rnd	595	591.7	2.94	596	594.47	1.46	596	594	1.53	596	591.2	2.51
51	20	rnd	596	592.2	2.04	596	594.2	1.37	596	594.83	0.87	596	593.73	1.76
		2op	596	593.7	1.44	596	594.73	1.2	596	595.07	0.58	596	594.73	0.69
	50	rnd	596	592.63	2.11	596	594.87	1.14	596	595.07	0.83	596	594	1.39
		2op	596	593.2	2.47	596	595.07	0.58	596	594.87	1.07	596	594.4	1

Table A.2082: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.17	3.22	596	593.37	1.96	596	593.67	1.9	595	591.5	2.78
		2op	594	590.7	2.32	595	594.6	1.4	595	594.07	1.28	595	592.33	2.02
	50	rnd	596	590.93	3.89	596	592.3	2.18	596	593.57	1.92	595	592.23	2.57
51	20	rnd	594	590.83	2.25	595	594.9	0.4	595	594.9	0.4	595	593.63	1.65
		2op	596	591.57	2.6	596	592.73	2.42	596	593.2	2.38	596	592.3	2.05
	50	rnd	594	591.03	2.3	595	594.47	1.28	596	594.93	0.45	595	594.23	0.57
		2op	596	591.77	2.75	596	591.83	2.59	596	593.23	2.51	596	592.13	2.37
			594	591.3	2.37	595	594.73	0.45	595	595	0	595	594.17	0.53

Table A.2083: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	591	2.84	596	593.63	1.79	596	593.03	1.75	595	589.73	3.27
		2op	595	591.93	2.75	596	593.87	1.25	596	593.1	1.97	595	590.17	3.21
	50	rnd	596	591.77	2.76	596	594.13	1.31	596	593.77	1.41	595	591	2.6
51	20	rnd	596	593	2.12	596	594.3	1.12	595	593.67	1.18	596	589.8	2.85
		2op	596	592.17	2.8	596	594.63	1.22	596	594.63	1.59	596	593.53	1.83
	50	rnd	595	593.5	1.59	596	594.63	1.19	596	594.9	0.84	596	594.97	0.49
		2op	596	593.03	2.34	596	594.8	0.96	596	594.83	0.91	596	593.4	1.89
			596	593.4	1.85	596	594.97	0.81	596	595.17	0.65	596	593.8	1.54

Table A.2084: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.43	3.21	596	593.03	2.46	595	592.77	2.45	596	591.5	2.86
		2op	594	591.43	2.14	595	594.73	0.78	595	594.1	0.84	595	592.37	2.37
	50	rnd	596	591.6	2.62	596	593.33	2.35	595	592.83	2.13	596	592.53	2.15
51	20	rnd	594	591.4	2.42	595	594.97	0.18	595	594.93	0.25	595	593.97	0.67
		2op	595	591.13	3.53	596	591.83	2.97	596	593.37	2.28	595	592.8	1.71
	50	rnd	594	591.13	2.34	595	594.8	0.41	595	594.9	0.31	595	594.1	0.55
	20	rnd	596	591.6	3.27	596	591.67	2.96	596	592.33	2.41	596	592.57	2.76
		2op	594	591.33	2.43	595	594.47	0.51	595	595	0	595	594.2	0.48

Table A.2085: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	593.13	2.01	596	590.4	3.7	596	589.67	3.6	595	589.43	3.29
		2op	596	594.17	1.26	595	589.63	3.61	595	589.1	3.4	595	587.77	3.51
	50	rnd	596	592.87	1.89	596	591	4.61	595	589.87	3.99	595	589.23	3.64
51	20	rnd	595	593.33	1.9	596	590.77	5.01	595	589.8	3.08	594	589.33	3.03
		2op	596	593.3	1.93	595	588.77	5.21	595	588.93	4.43	595	588.97	3.85
	50	rnd	595	594.2	0.41	596	589.77	4.59	596	589.9	3.43	596	589.1	3.24
	20	rnd	596	593.07	1.39	595	591.17	3.56	595	590.33	3.11	594	588.43	3.09
		2op	596	594.87	0.51	596	592.23	3.31	595	589.83	3.92	596	589.87	2.97

Table A.2086: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.17	2.78	593	587.8	4.33	593	588.13	3.52	595	588.1	4.15
		2op	594	593.07	1.8	595	588.67	4.61	596	589	2.68	595	588.2	3.94
	50	rnd	596	592.53	1.93	595	589.43	3.91	596	588.73	4.88	595	588.67	4.14
51	20	rnd	594	593.1	1.6	596	590.37	3.76	595	589.57	3.95	595	589.1	3.95
		2op	596	591.6	2.88	596	590.77	3.15	594	588.5	5.4	596	589.33	3.34
	50	rnd	595	593.6	1.16	595	589.2	3.45	595	589.83	3.78	593	588	3.7
	20	rnd	596	592.83	2.31	596	589.73	4	594	590.43	2.64	594	587.57	4.47
		2op	595	593.53	1.36	595	589.83	3.16	595	591.33	2.96	594	587.87	3.39

Table A.2087: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	772.37	3.21	777	774.37	1.81	777	773.77	2.46	777	771.27	2.79
		2op	776	770.23	3.47	777	774.67	2.07	777	773.47	1.89	776	769.7	3.86
	50	rnd	777	771.9	3.39	777	775.23	1.22	777	775.27	1.11	777	772.27	3.89
51	20	rnd	777	773.1	2.51	777	773.63	2.33	777	774.67	1.27	777	773.2	2.57
		2op	774	768.23	3.89	777	774.17	1.56	777	774.1	1.32	777	772.6	1.83
	50	rnd	777	773.33	2.56	777	774.97	1.27	777	775.67	1.32	777	774.53	1.87
		2op	776	771.4	2.51	777	775.43	1.48	777	775.6	1.5	777	773.33	2.22

Table A.2088: f_{25_400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	767.73	6.97	777	774.17	2.21	777	773.47	2.37	777	770.83	7.44
		2op	770	768.33	1.99	777	770.2	1.65	774	770.3	1.44	774	769.33	2.34
	50	rnd	777	768.87	5.31	777	772.1	2.78	777	773.67	2.6	777	770.97	5.73
51	20	rnd	777	767.73	2.33	774	770.03	0.81	772	769.97	0.67	770	769.7	0.53
		2op	775	768.17	6.44	777	771.53	5.98	777	773.37	1.92	777	770.53	7.89
	50	rnd	772	768.5	2.19	774	769.97	0.85	774	770.33	1.56	774	770.13	1.11
		2op	775	769.93	4.81	777	772.1	3.45	777	772.2	3.11	777	773.1	3.1
			770	767.83	2.29	770	769.73	0.45	774	769.83	0.91	774	769.9	0.99

Table A.2089: f_{25_400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	770.8	5.13	777	774.3	2.04	777	773.87	2.27	776	768.87	5.98
		2op	777	771.83	3.05	777	774.73	1.86	777	773.47	2.47	777	769.8	4.29
	50	rnd	777	771.6	3.36	777	774.9	1.24	777	774.97	1.43	777	771.33	3.97
51	20	rnd	777	770.8	5.07	777	775.33	1.42	777	775.63	1.07	777	771.4	3.43
		2op	777	772.7	2.76	777	774.4	1.83	777	775	1.53	777	773.27	3.1
	50	rnd	775	768.07	4.65	777	773.47	1.59	777	774.37	1.35	777	772.63	1.47
		2op	776	773.9	1.63	777	775.43	1.28	777	776.03	0.96	777	774.3	1.91
			777	770.27	2.88	777	775	1.64	777	775.6	1.63	777	773.63	2.3

Table A.2090: f_{25_400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	767.57	7.21	777	773.23	3.28	777	773.37	2.44	777	772.27	2.89
		2op	770	767.87	2.27	774	769.83	1.32	772	770.07	0.74	771	769.47	1.11
	50	rnd	777	769.73	6.32	777	771.03	8.08	777	773.9	2.76	777	771.13	5.88
51	20	rnd	770	767.5	2.26	770	769.67	0.48	772	770.07	0.74	775	770.27	1.84
		2op	777	766.63	9.65	777	770.9	4.1	777	772.73	2.45	777	773.03	3.15
	50	rnd	774	768.63	2.19	774	769.97	0.85	777	770.33	1.52	774	769.97	0.85
	20	rnd	775	768.7	5.63	777	770.2	5.99	777	772.4	3.35	777	773.47	3.44
		2op	770	768	2.26	770	769.7	0.47	774	769.8	0.92	770	769.8	0.41

Table A.2091: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	771.53	2.83	777	768.17	9.74	777	768.33	7.42	776	766.4	10.14
		2op	775	770.37	1.75	777	769.7	9.17	776	768.6	4.09	777	767.23	8.54
	50	rnd	777	772.77	2.62	776	770.17	4.93	776	768.13	7.66	776	767.3	8.84
51	20	rnd	777	772.03	2.09	777	768.7	8.57	776	769.63	5.66	775	767.7	8.96
		2op	777	772.57	2.45	776	767.1	9.21	777	769.03	8.7	776	768.73	5.6
	50	rnd	772	769.83	0.87	776	769.1	5.2	777	770.43	5.7	776	770.3	3.5
	20	rnd	777	774.4	1.83	775	771.5	3.3	776	770.8	5.31	776	769.17	6.07
		2op	777	771.27	1.86	777	771.8	5.99	777	770.03	7.37	777	767	7.8

Table A.2092: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	770.53	4.77	777	767.37	8.16	776	769.23	7.57	775	763.47	11.81
		2op	770	768.6	1.63	777	765.17	11.24	776	765.93	10.15	776	766.27	9.67
	50	rnd	777	768.77	6.6	777	770.57	3.47	775	768.77	8.33	776	769.47	6.24
51	20	rnd	770	769.17	1.37	777	768.83	6.66	776	768.03	7.92	777	766.13	9.22
		2op	775	770.57	5.73	777	763.5	13.12	777	768.27	7.57	776	766.7	7.63
	50	rnd	770	769.57	0.94	775	768.1	5.01	776	765.03	10.36	777	762.97	12.48
	20	rnd	775	767.87	8.27	777	769.97	5.97	777	770.1	4.95	777	768.13	8.07
		2op	770	769.5	0.51	777	769.17	6.9	776	768.97	3.6	775	765.67	11.32

Table A.2093: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	914.37	3.33	921	917.87	2.21	921	916.77	2.86	919	913.4	2.82
		2op	919	913.53	3.55	921	917.7	1.76	921	916.87	2.29	919	912.4	3.49
	50	rnd	919	915.23	3.55	921	918.17	1.58	921	918.57	1.48	921	913.93	3.22
		2op	921	914.8	3.12	921	918.37	1.67	921	918.5	1.96	919	914.77	3.04
51	20	rnd	921	914.73	3.19	921	917.2	2.57	921	917.93	2.24	921	916.77	2.61
		2op	919	914.5	2.47	921	917.07	2.02	921	918.5	1.91	921	916.53	1.78
	50	rnd	921	914.97	2.86	921	917.57	1.79	921	917.63	2.09	921	916.47	3.14
		2op	921	915.3	2.97	921	919.2	1.79	921	920	1.46	921	917.67	2.5

Table A.2094: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.6	2.66	921	915.53	2.99	921	916.37	2.54	921	916.33	2.93
		2op	916	912.7	3.64	918	915.93	0.98	918	916.07	0.37	921	915.33	2.6
	50	rnd	919	913.87	5.18	921	915.4	2.81	921	916	2.49	921	915.63	2.92
		2op	916	913.13	3.56	916	915.9	0.55	921	916.3	1.02	916	915.73	0.91
51	20	rnd	919	914	5.47	921	916.6	2.65	921	915.83	2.88	921	915.23	3.28
		2op	916	913.57	3.27	918	916.07	0.37	918	916.03	0.76	918	916.07	0.37
	50	rnd	921	914.7	3.5	919	915.13	2.62	921	915.27	2.57	921	916.5	2.62
		2op	916	913.37	3.49	916	916	0	916	916	0	916	916	0

Table A.2095: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.83	3.36	921	917.87	1.98	921	916.57	2.54	921	914.77	3.39
		2op	919	914.93	2.46	921	917.87	2.32	921	917.5	2.99	918	913.67	3.26
	50	rnd	919	915.1	2.7	921	917.37	1.88	921	918.07	2.15	919	915.2	3.34
		2op	921	914.97	3.32	921	918.47	1.25	921	918.1	1.83	919	913.9	2.78
51	20	rnd	919	915.23	2.19	921	917.17	2.59	921	917.03	2.16	921	917.97	2.46
		2op	918	914.53	2.83	921	917.87	2.61	921	918.63	1.71	921	916.97	1.67
	50	rnd	921	915.77	2.87	921	917.77	1.52	921	918.47	1.72	921	916.83	2.31
		2op	919	914.77	2.62	921	918.93	1.78	921	919.37	1.45	921	917.17	1.8

Table A.2096: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	913.97	3.38	921	916.17	2.95	921	916.7	2.31	919	915.17	2.88
		2op	916	913.1	3.33	918	915.93	0.94	918	916.23	0.63	919	915.77	2.14
	50	rnd	919	913.4	5.51	919	914.67	3.12	921	915.9	2.72	919	916.33	2.45
		2op	916	912.47	4.11	918	915.93	0.69	921	916.93	1.76	918	916.17	0.53
51	20	rnd	919	914.63	3.98	921	915.6	3.54	919	915.6	2.31	921	916.03	3.06
		2op	916	913.13	3.75	916	916	0	916	915.77	1.28	916	915.87	0.57
	50	rnd	919	913.13	3.6	921	915.53	2.96	919	915.53	2.73	921	916.6	3.38
		2op	916	912.2	3.73	916	916	0	916	916	0	916	916	0

Table A.2097: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	916.03	3.24	921	913.6	4.17	921	911.6	5.15	921	912.67	5.52
		2op	919	915.3	1.95	921	912.83	4.78	919	910.73	6.69	918	912.37	2.98
	50	rnd	921	916.7	2.58	921	913.9	6.55	919	912.77	4.21	919	911.3	4.62
		2op	919	915.93	1.46	921	915.27	3.04	921	913.17	3.22	919	911.8	3.67
51	20	rnd	921	916.63	2.66	921	914.83	4.01	919	914.53	3.26	919	912.97	3.47
		2op	916	915.83	0.91	921	915.03	6.18	918	912.87	5.49	921	913.8	3.77
	50	rnd	921	917.33	3.48	921	915.37	3.17	921	913.23	6.55	921	911.1	6.71
		2op	916	915.97	0.18	921	914.23	4.21	919	914.4	3.09	918	911.5	3.41

Table A.2098: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.23	3.16	921	913.73	4.51	921	911.83	7.22	918	909.83	8.86
		2op	916	915.83	0.91	919	911.9	4.63	921	912.07	4.57	916	910.87	6.61
	50	rnd	921	914.6	3.5	919	913.63	3.08	921	914.67	3.71	921	911.1	8.2
		2op	916	916	0	919	913.8	3.47	919	912.67	3.86	919	912.27	5.15
51	20	rnd	919	915.33	2.93	919	912.8	4.97	919	912.57	7.03	919	908.63	8.57
		2op	916	916	0	918	914.03	2.63	919	913.77	3.71	918	912.4	5.85
	50	rnd	919	915.3	3.36	921	914.83	3.62	921	911.3	9.16	919	910.7	5.62
		2op	916	915.87	0.73	918	912.3	3.73	919	911.4	6.41	919	914.2	3.24

Table A.2099: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1575	1560.47	7.77	1579	1561.27	7.47	1578	1560.6	8.68	1571	1553.2	9.69
		2op	1572	1560.83	9.66	1573	1560.83	7.57	1571	1555.5	9.58	1571	1556.93	11.74
	50	rnd	1573	1556.83	10.44	1574	1560.33	7.93	1575	1556.23	8.24	1570	1557.97	8.84
51	20	rnd	1578	1560.37	7.38	1569	1557.07	6.87	1581	1555.67	11.88	1577	1555.57	10.54
		2op	1571	1561.33	8.28	1575	1561.37	7.15	1577	1562.27	8.66	1580	1559.37	7.97
	50	rnd	1576	1560.17	5.76	1573	1561.17	6.3	1575	1560.57	8.08	1574	1559.17	9.7
	20	rnd	1578	1562.47	8.18	1574	1560.53	7.71	1571	1559.47	7.32	1576	1559.97	8.95
		2op	1572	1559.13	5.91	1575	1561.73	7.18	1574	1562.1	7.01	1571	1557.27	8.22

Table A.2100: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1558.43	9.75	1577	1559.67	10.11	1580	1561.57	10.61	1575	1557.53	10.7
		2op	1567	1555.63	2.95	1575	1564.3	5.18	1572	1561.27	6.83	1574	1560.83	6.24
	50	rnd	1573	1560.47	7.05	1576	1563.1	6.88	1576	1558.43	9.88	1574	1556.9	11.4
51	20	rnd	1560	1554.03	1.99	1576	1567.5	4.33	1574	1560.17	5.89	1575	1561.2	8.65
		2op	1578	1559.1	8.77	1577	1559.83	10.21	1578	1562	8.15	1575	1561.17	8.9
	50	rnd	1565	1554.77	2.82	1577	1566.63	4.86	1574	1562.73	6.23	1570	1559.53	5.35
	20	rnd	1574	1556.4	10.6	1577	1561.93	9.99	1577	1563.7	8.7	1571	1558.4	8.49
		2op	1558	1554.27	1.7	1573	1565.3	5.11	1575	1567.27	4.18	1570	1557.6	5.12

Table A.2101: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1575	1559.83	8.38	1572	1559.2	7.86	1577	1558.03	9.47	1571	1553.83	9.73
		2op	1574	1558.47	8.05	1581	1560.07	8.04	1574	1553.6	10.97	1570	1555.7	9.22
	50	rnd	1578	1560.57	8.78	1572	1560.13	7.6	1572	1554.8	10.59	1571	1556.37	8.34
51	20	rnd	1570	1562.57	4.02	1572	1560.03	6.73	1571	1556.7	9.2	1575	1559.07	9.18
		2op	1577	1561.27	7.94	1571	1561.23	6.43	1575	1559.77	10.4	1572	1557.83	9.18
	50	rnd	1572	1559.53	6.74	1573	1562.6	6.97	1573	1560.23	7.19	1572	1558.63	7.69
	20	rnd	1580	1562.63	9.1	1574	1562.17	8.39	1568	1558.7	6.58	1573	1556.37	8.79
		2op	1574	1562.07	5.39	1574	1560.63	7.6	1576	1563.6	6.28	1572	1560.07	7.74

Table A.2102: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1557.87	11.64	1577	1560.5	9.19	1576	1562.2	8.54	1577	1560.27	9.54
		2op	1560	1554.03	2.01	1571	1564.57	4.6	1568	1558.2	5.23	1570	1561.17	7.06
	50	rnd	1575	1559.27	7.93	1574	1560.47	8.27	1573	1560.87	7.3	1573	1559.87	9.66
		2op	1558	1554.17	1.74	1575	1567.67	3.78	1571	1561.43	6.23	1571	1560.07	6.89
51	20	rnd	1577	1559.93	11.02	1574	1558.07	11.54	1574	1559.8	8.19	1576	1557.77	10.6
		2op	1564	1554.97	2.93	1577	1566.57	4.19	1571	1562.23	5	1572	1560	5.66
	50	rnd	1572	1559.5	7.28	1572	1560.9	9.9	1572	1558.03	9.38	1578	1562.33	9.16
		2op	1558	1554.43	1.7	1572	1568.17	2.48	1572	1567.23	4.63	1572	1560	5.79

Table A.2103: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1578	1560.83	10.13	1573	1555.27	11.2	1574	1557.27	11.14	1573	1555.97	10.23
		2op	1570	1561.33	5.2	1575	1555.5	12.2	1574	1552.13	13.98	1573	1555.23	10.49
	50	rnd	1577	1561.6	6.12	1578	1558.13	9.58	1570	1553.7	13.17	1572	1556.27	13.56
		2op	1575	1561.27	8.67	1568	1556.87	8.48	1579	1553.6	13.01	1571	1554.9	12.19
51	20	rnd	1579	1560.87	8.29	1569	1551.73	10.59	1579	1554.43	11.84	1569	1555	10.45
		2op	1564	1557.93	3.22	1568	1557.27	11.87	1574	1555.73	9.56	1574	1556.23	7.96
	50	rnd	1572	1560.33	7.78	1573	1555.83	9.77	1574	1558.4	8.43	1572	1555	11.54
		2op	1571	1562.07	5.69	1571	1557.37	8.17	1572	1555.7	10.8	1570	1552.3	12.73

Table A.2104: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1560.57	7.47	1575	1556.63	11.07	1573	1556.77	7.19	1574	1556.8	11.72
		2op	1558	1554.07	1.44	1580	1558.77	12.53	1577	1556.77	14.6	1571	1551.13	12.71
	50	rnd	1570	1558	7.91	1575	1556.47	12.32	1571	1555.9	7.37	1577	1557.43	10.75
		2op	1558	1555.37	1.9	1574	1557.97	8.93	1577	1558.93	9.96	1572	1556.7	11.89
51	20	rnd	1574	1561.03	9.63	1574	1559.13	10.13	1576	1555.23	11.18	1571	1552	10.44
		2op	1564	1555.03	2.33	1580	1559.8	9.49	1571	1555.27	10.92	1573	1552.6	11.95
	50	rnd	1574	1561.97	7.21	1572	1558.03	10.78	1575	1556.83	9.79	1572	1558.47	9.96
		2op	1566	1556.8	3.17	1574	1560.47	8.54	1578	1558.73	10.35	1570	1554.3	12.12

Table A.2105: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1565	1553.5	5.77	1572	1557.3	8.88	1568	1553.57	8.34	1562	1550.23	8.53
		2op	1569	1553.17	8.04	1570	1555	8.57	1566	1552.53	9.78	1565	1549	9.68
	50	rnd	1569	1557.4	6.72	1569	1555.07	8.8	1566	1552.77	8.14	1567	1552.67	8.49
51	20	rnd	1567	1550.23	10.99	1569	1558.03	6.99	1569	1554.27	10.08	1564	1546.2	12.79
		2op	1566	1557.1	7.39	1568	1560.07	5.72	1570	1557.7	8.05	1565	1550.63	9.1
	50	rnd	1565	1551.57	9.44	1569	1556.87	7.23	1568	1557.77	7	1567	1550.4	10.57
	20	rnd	1567	1554.13	7.61	1571	1558.03	7.42	1568	1560.93	5.18	1566	1552.33	8.26
		2op	1568	1555.03	6.83	1569	1558.27	7.52	1569	1559.27	6.1	1566	1549.6	10.4

Table A.2106: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1548.67	10.97	1570	1557.2	7.59	1570	1552.73	8.7	1568	1553.97	7.25
		2op	1540	1531.9	2.94	1564	1540.87	12.59	1565	1544.57	12.24	1564	1546.73	13.01
	50	rnd	1565	1546.57	10.82	1569	1557.3	10.15	1569	1558.43	8.72	1565	1553.27	7.63
51	20	rnd	1540	1531.23	1.77	1566	1553.1	13.11	1566	1541.3	13.17	1567	1547.63	11.84
		2op	1565	1545.3	12.32	1572	1556.3	7	1569	1557.97	6.76	1568	1556.6	8.14
	50	rnd	1554	1532.87	6.02	1570	1548	13.7	1566	1540.43	13.25	1565	1543.1	12.84
	20	rnd	1564	1546.83	14.01	1569	1552.93	8.01	1572	1555.93	7.99	1568	1556.2	7.46
		2op	1531	1530.93	0.37	1561	1538.93	11.51	1570	1544.43	12.11	1559	1539.03	9.29

Table A.2107: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1572	1556.77	7.88	1565	1554.9	8.48	1570	1550.1	11.52	1568	1547.87	10.83
		2op	1567	1554.17	9.07	1569	1554.6	6.62	1568	1553.23	8.42	1566	1548.97	14.07
	50	rnd	1569	1554.83	9.44	1566	1557.33	5.71	1566	1554	6.91	1567	1553.13	9.09
51	20	rnd	1565	1553.5	7.16	1568	1556.13	6.95	1569	1553	8.91	1563	1548.13	8.83
		2op	1566	1557.43	6.08	1570	1556.93	7.53	1567	1556.4	7.49	1565	1554.73	6.96
	50	rnd	1566	1552.67	10.41	1569	1555.57	7.95	1570	1558.13	6.85	1568	1553.7	8.88
	20	rnd	1570	1558.87	6.31	1570	1557.53	6.25	1570	1559.73	6.46	1568	1554.73	9.43
		2op	1572	1556.6	10.19	1569	1557.03	6.98	1569	1557.93	7.23	1568	1551.3	10.01

Table A.2108: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1545.27	9.99	1569	1557.37	9.46	1566	1555.13	8.45	1571	1555	8.04
		2op	1552	1532.5	4.37	1566	1545.2	13.86	1567	1546.33	13.01	1569	1549.73	10.33
	50	rnd	1561	1546.73	10.48	1568	1558.5	6.81	1569	1555.13	9.87	1569	1555.03	10.17
51	20	2op	1540	1531.33	1.65	1569	1556.87	9.58	1561	1535.6	9.46	1564	1547.3	10.9
		rnd	1569	1543.03	14.14	1565	1555.03	7.5	1569	1555.53	9.13	1568	1556.27	8.78
	50	2op	1557	1532.63	6.25	1565	1546.53	13.32	1570	1543.93	13.81	1565	1545.2	11.76
		rnd	1566	1550.57	10.96	1567	1552.2	10.33	1570	1556.67	9.8	1564	1550.83	9.44
		2op	1540	1531.3	1.64	1565	1540.53	11.44	1568	1544.93	14.61	1564	1539.6	10.53

Table A.2109: f_{50_412} : transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1569	1557.13	9.22	1567	1545.77	14.15	1562	1547.17	8.62	1562	1545.93	12.32
		2op	1569	1552.53	11.14	1570	1550.2	8.79	1564	1548.27	10.75	1569	1546	12.34
	50	rnd	1571	1556.33	8.58	1563	1549	9.95	1564	1545.2	11.91	1564	1548.53	9.43
51	20	2op	1569	1557.03	9.6	1563	1546.07	11.1	1564	1546.17	14.13	1569	1549.37	10.96
		rnd	1572	1558.43	8.32	1566	1546.63	13.26	1568	1551.27	10.19	1567	1545.07	11.49
	50	2op	1564	1556.57	5.49	1566	1546.77	10.2	1561	1545.97	12.29	1567	1546.43	10.72
		rnd	1569	1557.27	7.91	1567	1549.47	9.23	1566	1547.7	12.8	1569	1548.97	9.67
		2op	1566	1558.73	4.05	1572	1549.13	12.31	1565	1550.03	7.68	1565	1548.33	10.04

Table A.2110: f_{50_412} : basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1547.2	9.73	1567	1548.87	9.42	1567	1547.4	12.57	1573	1550	10.29
		2op	1541	1531.33	1.83	1570	1550.5	11	1564	1549.53	10.39	1566	1548.87	10.98
	50	rnd	1565	1549.97	8.26	1565	1548.77	10.33	1564	1548.57	10.46	1564	1549.5	12.44
51	20	2op	1531	1531	0	1566	1549.73	10.75	1569	1545.53	11.56	1568	1550.47	12.72
		rnd	1565	1551.77	12.12	1567	1551.03	9.83	1566	1551.9	10.43	1566	1545.83	10.32
	50	2op	1531	1531	0	1564	1550.27	11.67	1566	1546.77	12.08	1568	1546.17	12.56
		rnd	1569	1553.03	10.49	1565	1553.2	9.17	1567	1546.6	12.16	1573	1546.77	13.81
		2op	1531	1531	0	1568	1543.97	13.04	1567	1549.8	11.72	1567	1545.6	10.77

Table A.2111: f_{50_412} : transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1565	1551.2	7.45	1563	1551.23	6.88	1565	1552.4	7.63	1563	1551.3	6.69
		2op	1568	1549.8	10.11	1563	1553.07	7.34	1568	1549.2	10.38	1565	1551.03	8.69
	50	rnd	1566	1552.13	8.66	1563	1551.17	8.51	1564	1549.5	9.53	1564	1547.93	10.32
51	20	rnd	1566	1553.13	8.63	1568	1551.27	8.13	1565	1550.63	8.84	1564	1551.4	7.97
		2op	1562	1553.3	6.14	1567	1554.07	7.46	1567	1554.83	6.22	1565	1552.27	7.2
	50	rnd	1564	1552.27	7.2	1567	1555.13	5.8	1566	1555.53	5.93	1561	1550.57	6.12
	20	rnd	1565	1552.1	5.64	1567	1553.17	7.53	1568	1554.07	6.99	1566	1548.57	8.39
		2op	1563	1553.83	4.39	1568	1554	7.59	1568	1553.9	6.17	1565	1552.47	9.87

Table A.2112: $f_{50.498}$: basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1559	1548.17	8.53	1566	1554.4	6.38	1567	1551.93	6.98	1566	1551.93	7.93
		2op	1553	1548.67	1.49	1555	1548.33	2.45	1561	1550.33	4.1	1563	1551.37	6.82
	50	rnd	1562	1548.7	9.44	1567	1553.2	6.68	1566	1551.93	8.86	1565	1552.2	8.5
51	20	rnd	1548	1547.5	2.11	1556	1548.93	2.2	1557	1548.6	2.19	1566	1550.47	6.91
		2op	1565	1547.3	8.23	1565	1552.8	9.35	1567	1551.9	8.97	1562	1551.2	8.06
	50	rnd	1557	1548.37	1.67	1558	1548.33	2.75	1557	1548.6	1.92	1563	1551.87	5.75
	20	rnd	1565	1549.17	9.08	1565	1552.7	6.54	1568	1551.33	7.16	1570	1554.43	8.2
		2op	1548	1548	0	1548	1548	0	1550	1548.07	0.37	1559	1550.7	3.94

Table A.2113: $f_{50.498}$: transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1552.03	6.7	1565	1551.73	6.89	1565	1549.73	8.25	1558	1546.93	7.83
		2op	1570	1551.5	10.39	1567	1552.23	8.83	1564	1551.5	8.41	1565	1550.37	8.08
	50	rnd	1564	1553.1	5.98	1563	1550.5	7.1	1567	1550.07	8.76	1570	1552.3	9.06
51	20	rnd	1568	1550.27	11.31	1568	1552.1	9.25	1568	1550.63	8.68	1563	1547.17	9.72
		2op	1565	1551.5	9.83	1567	1555.13	8.11	1562	1551.33	6.98	1570	1552.73	6.64
	50	rnd	1568	1553.07	6.17	1564	1552.5	6.66	1567	1550.9	7.58	1566	1553.33	7.31
	20	rnd	1568	1555.13	6.95	1570	1554	8.25	1564	1553.77	7.91	1568	1550.47	6.9
		2op	1568	1553.33	7.88	1568	1555.6	7.56	1568	1552.93	8.06	1564	1549.4	8.7

Table A.2114: $f_{50.498}$: basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1568	1548.8	9.68	1566	1552.5	7.12	1567	1551	9.65	1570	1553.83	7.34
		2op	1560	1549.07	3	1557	1548.27	2.85	1564	1551	4.46	1565	1552.07	8.3
	50	rnd	1561	1548.07	7.09	1565	1551.23	7.23	1567	1551.07	8.8	1570	1550.9	9.48
51	20	2op	1553	1548.17	0.91	1553	1548.37	1.07	1564	1548.9	4.47	1566	1551.43	8.13
		rnd	1566	1546.97	8.34	1566	1552.57	7.86	1568	1552.6	7.93	1570	1548.3	10.64
	50	2op	1553	1548.1	2.54	1556	1549.17	2.36	1557	1548.7	2.61	1561	1550.53	4.58
	20	rnd	1561	1548.43	8.23	1566	1552.43	6.02	1568	1552.73	7.26	1564	1553.4	7.44
		2op	1548	1548	0	1550	1548.07	0.37	1552	1548.27	0.87	1559	1550.1	3.45

Table A.2115: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1568	1555.23	8.8	1563	1548.67	8.01	1562	1548.57	8.04	1562	1546.93	10.05
		2op	1562	1549.9	5.09	1566	1547.9	9	1566	1546.5	11.82	1570	1550.33	10.1
	50	rnd	1567	1552.07	7.09	1565	1547.43	11.41	1567	1548.07	8.76	1559	1543.57	12.52
51	20	2op	1564	1552.27	6.5	1562	1545.43	10.61	1565	1546.33	11.52	1562	1544.87	11.94
		rnd	1565	1552.37	7.58	1563	1549.97	9.3	1564	1546.97	10.5	1564	1545.87	11.63
	50	2op	1550	1548.07	0.37	1562	1549.83	8.15	1564	1549	11.09	1563	1547.57	8.92
	20	rnd	1567	1550.3	7.13	1564	1548.17	9.47	1564	1547.07	10.5	1560	1547.9	10.18
		2op	1559	1549.53	2.61	1568	1550.33	11.81	1567	1551.93	9.12	1566	1548.43	11.82

Table A.2116: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1549.7	7.64	1570	1548.43	11.76	1567	1549.17	8.11	1560	1547.33	9.34
		2op	1548	1548	0	1562	1548.53	8.93	1562	1548.03	10.03	1564	1544.63	11.42
	50	rnd	1564	1548.73	7.89	1563	1549.4	9.49	1565	1547.97	10.25	1566	1549.13	10.52
51	20	2op	1548	1548	0	1561	1549.83	6.19	1559	1548.73	6.03	1561	1545.13	8.76
		rnd	1561	1548.33	6.43	1564	1547.23	11.02	1562	1548.83	8.03	1566	1546.13	10.32
	50	2op	1548	1548	0	1565	1547.63	10.92	1563	1548.6	10.04	1563	1548.7	7.61
	20	rnd	1567	1550.93	7.92	1563	1548.3	9.46	1566	1548.8	10.22	1557	1543.1	11.99
		2op	1548	1548	0	1562	1550.3	6.4	1570	1548.83	9.21	1564	1545.17	11.18

Table A.2117: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2764	2747.1	12.51	2767	2746.2	13.3	2762	2744.93	11.86	2764	2740.73	12.02
		2op	2775	2742.9	12.68	2772	2748.67	13.38	2780	2743.33	14.69	2772	2743.47	17.31
	50	rnd	2768	2746.33	10.64	2771	2747.2	13.44	2765	2746.63	10.64	2770	2740.53	15.15
51	20	2op	2767	2747.93	11.56	2765	2744.23	13.54	2773	2746.67	13.8	2777	2742.87	14.46
		rnd	2771	2747.97	9.47	2782	2752.9	10.92	2772	2749.7	11.96	2769	2743.5	11.25
	50	2op	2775	2752.97	10.93	2779	2754.13	10.77	2767	2751	9.51	2762	2748.77	8.68
	20	rnd	2781	2749.77	12.53	2767	2745.27	13.24	2761	2747.83	11.14	2770	2746.7	13.32
		2op	2780	2753.3	12.82	2768	2750.23	11.17	2784	2752.13	14.34	2768	2745.8	10.64

Table A.2118: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2765	2746.53	10.38	2780	2752.43	10.73	2773	2747.33	13.16	2765	2740.73	10.84
		2op	2778	2763.87	5.45	2778	2765.5	6.54	2773	2756.07	10.37	2770	2750.37	11.83
	50	rnd	2771	2745.57	11.38	2765	2746.03	10.99	2767	2750.67	10.09	2767	2744.83	11.03
51	20	2op	2778	2763.73	6.89	2779	2764.87	4.74	2778	2757.47	11.66	2774	2754.07	12.52
		rnd	2766	2743.9	12.64	2771	2751.1	14.4	2770	2747.93	11.52	2766	2745.37	14.59
	50	2op	2771	2762.7	7.47	2772	2763.5	5.1	2777	2762.8	7.54	2778	2759.57	7.89
	20	rnd	2762	2740.1	17.46	2775	2747.87	15.06	2769	2748.7	12.52	2767	2744.57	14.38
		2op	2775	2763.8	3.87	2774	2763.57	3.37	2774	2764.17	5.23	2777	2761.03	8.56

Table A.2119: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2773	2747.6	13.29	2774	2745.3	15.05	2760	2740.17	13.04	2766	2745.7	13.17
		2op	2773	2749.3	12.98	2774	2746.4	13.33	2775	2747.57	13.68	2764	2742.27	11.61
	50	rnd	2761	2747.43	8.99	2766	2742.6	12.79	2768	2747.6	14.13	2768	2743.47	13.93
51	20	2op	2766	2747.47	9.27	2769	2747.57	12.23	2767	2746.53	12.22	2770	2742.23	12.01
		rnd	2763	2745.63	9.65	2776	2748.9	12.91	2774	2748	11.22	2767	2745.8	12.67
	50	2op	2770	2752.1	10.26	2775	2751.7	10.05	2775	2750.53	11.72	2765	2745	11.76
	20	rnd	2765	2749.57	10.04	2769	2746.97	12.8	2763	2744.4	12.58	2771	2741.33	14.58
		2op	2776	2753.77	12.67	2770	2753.17	10.05	2778	2748.93	12.66	2762	2744.17	13.99

Table A.2120: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2767	2742.73	16.18	2772	2747.6	14.6	2772	2747.8	13.39	2770	2750.37	13.06
		2op	2778	2762.9	7.11	2777	2761.6	8.54	2778	2755.2	10.56	2767	2747.6	13.19
	50	rnd	2778	2748.63	12.7	2773	2746.9	13.3	2765	2749.13	7.46	2767	2746.57	15.24
51	20	rnd	2778	2763.13	3.48	2778	2765.53	6.04	2779	2763.07	7.51	2776	2754.67	11.14
		2op	2773	2745.93	14.59	2775	2751	12.44	2774	2749.23	12.99	2775	2749.77	13.44
	50	rnd	2771	2762.97	2.65	2771	2763.6	4.12	2773	2763.27	5.46	2772	2756.4	10.2
	20	rnd	2775	2740.9	11.85	2773	2745.67	19.17	2772	2748.47	14.2	2773	2746.63	11.25
		2op	2771	2763.13	2.65	2773	2763.87	4.01	2772	2763.7	4.81	2773	2758.57	11.39

Table A.2121: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2767	2750.93	14.5	2764	2740.87	16.95	2764	2740.37	15.56	2760	2743.97	11.59
		2op	2772	2752.67	11.46	2755	2738.23	12.21	2769	2739.67	13.97	2767	2743.9	14.16
	50	rnd	2764	2750.13	7.44	2768	2741.5	17.42	2765	2741.3	14.52	2768	2740.6	11.43
51	20	rnd	2767	2749.53	11.59	2768	2744.23	11.7	2763	2741.47	9.92	2775	2743.2	12.64
		2op	2769	2752.4	12.18	2761	2740.87	12.85	2764	2738.67	12.76	2769	2743.13	13.58
	50	rnd	2775	2762.9	6.46	2769	2739	16.84	2763	2743.73	13.36	2773	2745.03	14.64
	20	rnd	2775	2752.3	14.17	2770	2743.63	12.84	2774	2741.83	16.71	2765	2741.17	12.85
		2op	2779	2761.73	10.42	2771	2739.73	13.02	2772	2743.47	10.38	2759	2740.8	11.31

Table A.2122: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2767	2744.8	13.39	2763	2741.9	15.32	2775	2741.43	13.1	2766	2740.63	16.37
		2op	2773	2762.8	3.14	2776	2744.67	15.55	2776	2741.67	13.52	2770	2740.47	14.39
	50	rnd	2771	2742.13	11.67	2764	2741.37	11.82	2771	2742.07	11.87	2779	2742.47	16.31
51	20	rnd	2769	2762.23	1.38	2767	2743.13	14.29	2776	2747	14.16	2762	2740.73	11.11
		2op	2767	2742.37	16.16	2776	2744.43	17.43	2769	2741.87	15.05	2772	2741.9	16.84
	50	rnd	2765	2761.83	1.6	2773	2745.8	14.58	2775	2744.87	14.89	2763	2737.7	12.89
	20	rnd	2764	2741.63	14.9	2776	2745.13	14.25	2765	2744.6	11.41	2770	2742.3	12.59
		2op	2762	2762	0	2773	2748.97	13.56	2778	2744.6	12.06	2769	2739.4	16.25

Table A.2123: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2839	2817.53	14.39	2843	2818.2	14.27	2838	2813.77	16.11	2842	2816.23	12.32
		2op	2838	2812.6	13.26	2835	2813.97	13.07	2839	2815.33	15.33	2842	2812.07	14.34
	50	rnd	2838	2819.43	11.66	2839	2817.4	12.83	2843	2817	13.9	2831	2807.6	13.97
51	20	rnd	2835	2812.8	13.95	2833	2812.57	12.73	2841	2816.63	12.62	2828	2807.27	13.19
		2op	2837	2815.73	12.14	2846	2817.83	14.1	2835	2815.8	14.02	2837	2816.37	13.08
	50	rnd	2836	2818	12.11	2836	2818.17	11.86	2842	2815.77	11.57	2848	2818	14.4
		2op	2837	2816.5	12.43	2838	2815.4	10.24	2841	2814.93	13.3	2842	2818.87	13.3

Table A.2124: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2836	2814.97	12.36	2841	2818.27	10.08	2841	2817.9	12.66	2838	2817.57	13.91
		2op	2827	2808.23	6.62	2829	2810.87	9.22	2835	2809.73	10.27	2834	2814.9	9.45
	50	rnd	2840	2816.17	17.15	2839	2817.33	13.22	2843	2817.33	11.84	2839	2812.87	9.1
51	20	rnd	2818	2806.7	4.6	2834	2809.17	7.48	2835	2813.3	9.91	2839	2811.87	12.85
		2op	2834	2814.7	13.86	2842	2820.43	10.49	2846	2819.83	11.36	2840	2816.27	15.41
	50	rnd	2818	2809.87	4.99	2819	2807.8	5.25	2843	2813.9	11.45	2836	2816.17	11.34
		2op	2827	2809.9	11.15	2837	2819.33	11.52	2834	2815.83	11.7	2844	2817.3	14.52
			2821	2807.63	4.37	2818	2809.13	4.49	2819	2809.77	5.42	2841	2811.07	13.94

Table A.2125: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2840	2817.33	14.37	2846	2816.5	12.73	2837	2812.2	12.47	2837	2813.93	13.26
		2op	2840	2815.57	15.34	2839	2812.87	12.2	2845	2816.07	12.93	2828	2811.2	11.9
	50	rnd	2835	2817.27	12.64	2833	2816.83	13.26	2840	2814.13	11.88	2836	2808.2	15.62
51	20	rnd	2846	2818.97	12.2	2841	2814.17	16.2	2834	2814.63	12.95	2839	2816.33	14.37
		2op	2843	2818.73	11.57	2846	2820.17	11.82	2848	2817.03	11.2	2844	2817.03	12.94
	50	rnd	2837	2815.6	10.04	2839	2817	12.25	2841	2816.87	13.6	2834	2811.77	15.01
		2op	2836	2818.6	8.95	2838	2811.47	12.99	2838	2820.8	9.75	2846	2819.13	13.59
			2840	2820.27	10.99	2839	2816.83	12.85	2841	2818.37	12.47	2832	2814.73	12.77

Table A.2126: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2845	2816.87	12.21	2844	2819.33	12.54	2841	2819.73	17.7	2840	2817.77	14.11
		2op	2830	2807.9	8.75	2838	2809.43	11.31	2840	2813.9	11.69	2843	2817	10.38
	50	rnd	2836	2817.47	9.3	2838	2819.4	8.86	2843	2821.5	12.33	2837	2817.83	8.91
51	20	rnd	2822	2807.1	5.24	2828	2811.37	7.8	2840	2813.73	10.82	2841	2813.7	11.58
		2op	2836	2812.13	14.29	2840	2818.6	11.98	2844	2818.6	14.54	2840	2819.97	11.06
	50	rnd	2820	2809.33	5.83	2830	2810.33	7.37	2826	2811.33	8.58	2845	2817.1	12.07
	20	rnd	2838	2810.97	12.67	2839	2816.1	12.47	2842	2820.63	12.89	2834	2819.43	11.04
		2op	2816	2806.9	4.31	2825	2810.17	5.41	2823	2810.3	6.89	2841	2812.5	14.1

Table A.2127: f_{100_415} : transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2836	2818.3	10.55	2835	2810.63	13.19	2839	2814.57	13.3	2838	2814.03	13.87
		2op	2840	2819.97	10.56	2838	2814.57	12.65	2829	2808.6	13.88	2833	2811.33	16.94
	50	rnd	2843	2818.8	14.6	2836	2811.77	12.69	2839	2813.27	16.39	2839	2817.63	11.33
51	20	rnd	2842	2817.83	11.94	2835	2814.63	12.8	2831	2813.7	10.96	2830	2809.3	15.2
		2op	2836	2821.23	9.36	2842	2813.03	11.87	2840	2812.2	12.96	2838	2812.57	12.91
	50	rnd	2832	2808.47	8.47	2836	2808.43	15.1	2837	2810.53	14.18	2835	2813.43	11.46
	20	rnd	2837	2823.13	10.28	2833	2814.33	11.79	2843	2816.17	12.74	2832	2809.47	13.98
		2op	2841	2817.97	12.43	2837	2810.87	12.59	2828	2812.27	13.55	2833	2811.57	12.47

Table A.2128: f_{100_415} : basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2838	2813.77	16.77	2834	2812.87	15.38	2833	2815.23	12.6	2841	2810.77	14.51
		2op	2814	2807.37	4.65	2842	2815.2	14.85	2846	2815.77	14.99	2837	2815.07	13.92
	50	rnd	2839	2812.4	16.01	2838	2816.47	14.53	2842	2813.83	14.07	2840	2812.1	13.12
51	20	rnd	2816	2807.73	3.83	2833	2814.9	11.1	2836	2816.3	11.99	2839	2810.63	16.62
		2op	2836	2814	12.43	2838	2809.83	14.67	2840	2815.27	11.99	2842	2820	12.19
	50	rnd	2824	2808.4	4.92	2841	2816.33	14.01	2840	2813.53	14.94	2834	2812.33	13.85
	20	rnd	2836	2815.93	10.11	2839	2816	12.26	2841	2814.13	17.22	2835	2813.13	12.6
		2op	2810	2806.2	2.94	2834	2812.57	11.26	2839	2810.77	17.1	2835	2813.83	13.59

Table A.2129: f_{100_415} : transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2708	2688.83	10.86	2710	2687.57	14.05	2708	2687.17	8.7	2709	2687.13	13.52
		2op	2709	2692.7	10.37	2707	2687.57	10.64	2706	2685.53	10.72	2707	2685.6	12.78
	50	rnd	2706	2687.63	11.11	2705	2685.8	12.21	2710	2686.33	12.63	2711	2683.63	15.5
51	20	2op	2714	2690.63	12.95	2712	2687.1	9.94	2709	2686.5	11.9	2702	2683.3	12.11
		rnd	2711	2691.43	10.29	2707	2691.47	9.44	2714	2691.33	12.13	2711	2688.4	12.06
	50	2op	2716	2694.3	13.66	2706	2690.2	8.42	2714	2687.83	12.93	2707	2688.1	13.41
		rnd	2704	2692.67	7.88	2711	2688.33	13.04	2710	2687.57	12.44	2713	2688.03	13.37
		2op	2711	2694.57	9.19	2707	2690.4	8.54	2708	2691.5	9.72	2711	2691.4	10.26

Table A.2130: $f_{100.512}$: basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2709	2685.83	12.47	2715	2690.67	14.15	2714	2687.67	15.39	2715	2687.63	13.12
		2op	2708	2693.47	6.2	2712	2697.9	6.18	2707	2691.7	8.75	2712	2691.07	9.77
	50	rnd	2708	2686.77	13.69	2710	2692.37	11.52	2713	2689.37	11.57	2709	2691.83	10.78
51	20	2op	2706	2693.43	6.66	2709	2699.83	4.86	2712	2695.17	8.54	2709	2690.87	11.37
		rnd	2706	2686.9	11.67	2710	2689.97	13.28	2714	2692.8	13.04	2717	2690.87	12.84
	50	2op	2702	2695.7	3.97	2715	2697.4	6.09	2709	2695.87	6.33	2711	2692.67	11.69
		rnd	2708	2683.23	13.61	2719	2688.47	17.77	2709	2689.87	12.92	2712	2688.4	12.44
		2op	2700	2694.33	4.51	2706	2696.17	3.56	2706	2697.3	5.87	2716	2696.53	8.45

Table A.2131: $f_{100.512}$: transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2710	2688.3	11.73	2707	2684.67	12.1	2707	2686.57	13.1	2705	2686.03	11.01
		2op	2710	2687.37	15.5	2709	2687.03	12.96	2703	2686.57	11.11	2705	2686.17	12.97
	50	rnd	2706	2688.63	10.43	2712	2687.57	10.92	2701	2686.53	10.65	2711	2688.17	13.46
51	20	2op	2710	2690	12.51	2710	2687.4	11.51	2711	2689.37	12.49	2706	2683.67	12.91
		rnd	2710	2691.13	9.9	2714	2692.9	9.16	2716	2688.2	16.02	2708	2689.8	12.2
	50	2op	2715	2692.9	11.21	2709	2693.73	10.93	2707	2692.57	8.26	2709	2687.87	12.36
		rnd	2708	2689.07	10.51	2714	2690.83	12.59	2708	2692.4	10.28	2712	2684.17	14.8
		2op	2707	2691.43	11.1	2713	2687.8	12.68	2708	2690.93	8.4	2713	2688.97	13.06

Table A.2132: $f_{100.512}$: basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2713	2682.27	13.74	2717	2691.83	12.2	2713	2688.87	14.32	2717	2690.43	10.23
		2op	2706	2694.27	6.09	2710	2695.87	6.31	2709	2695.03	8.02	2718	2694.5	9.23
	50	rnd	2709	2687.7	12.87	2709	2689.07	9.99	2707	2690.9	11.73	2709	2685.73	11.22
51	20	rnd	2705	2694.8	5.27	2716	2697.9	7.14	2707	2695.83	8.63	2711	2693.07	12.67
		2op	2710	2685.53	12.29	2714	2692.33	13.65	2704	2689.3	10.06	2705	2687.17	15.79
	50	rnd	2703	2694.53	6.74	2712	2699.37	5.86	2710	2696.67	8.35	2716	2696.8	9.46
	20	rnd	2709	2682.03	13.63	2709	2690.43	11.9	2715	2690.57	11.65	2714	2691.77	13.23
		2op	2703	2692.13	6.47	2704	2696.1	4.69	2714	2697.2	7.14	2711	2694.97	9.96

Table A.2133: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2717	2689.47	12.99	2705	2683.8	12.92	2708	2687.6	12.6	2709	2685.8	9.26
		2op	2717	2694.13	11.61	2707	2684.2	11.84	2708	2687.03	12.05	2713	2687.37	12.74
	50	rnd	2719	2692.57	10.16	2714	2683.47	13.22	2702	2683.83	12.72	2705	2682.13	15.14
51	20	rnd	2708	2693.37	8.92	2710	2687.1	12.38	2709	2682	14.78	2705	2684.7	14.64
		2op	2713	2691.63	12.02	2707	2685.07	11.06	2704	2685.17	14.34	2702	2685.03	11.62
	50	rnd	2708	2697.4	4.91	2713	2686.97	11.68	2701	2686.3	10.58	2705	2687.2	13.75
	20	rnd	2709	2693.73	10.47	2706	2687.07	11.5	2708	2685.5	12.38	2716	2687.7	12.86
		2op	2710	2696.53	9.82	2713	2687.2	13.96	2696	2680.7	14.16	2708	2686.43	11.53

Table A.2134: f_{100_512} : basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2682.13	11.87	2715	2689.2	10.15	2709	2691.53	13.07	2707	2682.17	10.25
		2op	2703	2695.73	4.31	2705	2689.2	10.26	2708	2686.73	12.47	2710	2685.93	11.14
	50	rnd	2702	2685.2	10.11	2720	2689.6	13.56	2712	2688.6	12.49	2715	2684.5	12.36
51	20	rnd	2700	2694.57	2.34	2708	2688.4	9.1	2702	2688.57	10.82	2715	2685.57	16.64
		2op	2705	2682.3	11.64	2717	2687.37	11.87	2709	2690.4	10.53	2703	2686.37	10.12
	50	rnd	2702	2695.27	3.77	2702	2687.2	9.52	2712	2687.97	13.12	2706	2687.03	12.82
	20	rnd	2699	2687.03	9.32	2711	2691.03	13.6	2712	2685.53	15.7	2708	2686.13	14.17
		2op	2696	2695.13	0.35	2712	2690.33	11.73	2705	2688.4	13.17	2709	2680.97	15.23

Table A.2135: f_{100_512} : transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17892	17812.47	36.74	17873	17812.73	33.41	17883	17806.6	32.26	17869	17795.8	37.09
		2op	17882	17809.03	35.22	17862	17800.43	37.88	17886	17795.27	41.74	17893	17806.1	37.21
	50	rnd	17872	17807.27	37.64	17892	17808.1	36.02	17899	17805.3	38.18	17887	17800.07	39.82
51	20	rnd	17896	17815.27	35.84	17919	17817.77	38.86	17863	17801	32.4	17878	17790.9	41.86
		2op	17871	17820.1	29.35	17901	17810.13	48.38	17877	17794	52.18	17863	17807.97	35.74
	50	rnd	17900	17821.5	33.9	17912	17820.83	38.78	17891	17827.57	34.07	17869	17797.1	35.09
	20	rnd	17919	17833.8	31.64	17883	17806.67	34.73	17887	17810.57	42.41	17869	17813.8	35.22
		2op	17887	17824.13	25.67	17943	17826.23	43.78	17863	17818.5	26.71	17873	17818.53	28.36

Table A.2136: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17883	17821.53	27.53	17901	17835	33.62	17901	17830.37	36.1	17867	17808.73	37.04
		2op	17878	17836.03	17.59	17899	17857.07	21.83	17896	17848.07	26.31	17889	17831.93	35.81
	50	rnd	17901	17830.4	35.78	17879	17832.63	28.87	17895	17841.97	34.42	17883	17823.87	37.48
51	20	rnd	17873	17835.2	20.47	17927	17851.63	28.93	17916	17851.57	32.76	17921	17835.13	36.84
		2op	17903	17827.63	38.42	17898	17834.5	33.96	17922	17833.9	38.75	17913	17836.5	29.6
	50	rnd	17896	17846.43	18.57	17914	17849.93	23.91	17919	17858.17	28.3	17920	17859.43	32.48
	20	rnd	17896	17817.8	33.03	17901	17821.3	36.78	17936	17837.7	36.58	17914	17837.07	37.75
		2op	17899	17838.17	19.43	17905	17851.63	22.15	17905	17854.93	24.14	17920	17858.77	26.26

Table A.2137: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17869	17808	34.56	17887	17800.67	36.38	17877	17808.57	34.9	17888	17797.57	44.09
		2op	17914	17811.7	37.28	17897	17815.93	43.6	17872	17797.7	38.94	17889	17814.5	33.43
	50	rnd	17876	17805	40.27	17880	17802.43	32.1	17857	17800.7	32.51	17870	17798.63	33.13
51	20	rnd	17884	17817.67	38.82	17867	17805.23	30.33	17886	17801.93	42.96	17896	17819.77	40.66
		2op	17870	17812.53	40.31	17885	17820.47	37.65	17904	17821.03	37.8	17889	17811.3	42.63
	50	rnd	17888	17820.57	37.61	17891	17818.33	42.05	17915	17816.67	39.9	17873	17812.1	33.19
	20	rnd	17883	17825.27	37.05	17882	17825.93	31.46	17890	17817.2	32.95	17863	17802.53	30.34
		2op	17893	17819.27	27.04	17895	17824.57	32.71	17910	17811.73	36.37	17842	17793.57	28.52

Table A.2138: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17907	17827.77	40.92	17919	17846.6	33.02	17901	17833.47	36.78	17899	17818.6	37.94
		2op	17876	17847.5	14.65	17949	17864.6	28.58	17912	17856.97	27.5	17879	17830.17	29.93
	50	rnd	17915	17830.83	38.7	17922	17837.07	31.9	17911	17837.97	32.82	17895	17830.47	35.1
51	20	2op	17917	17837.57	27.61	17928	17857.57	28.16	17909	17865.9	21.77	17896	17840.27	30.49
		rnd	17923	17829.23	40.95	17885	17824.33	35.63	17888	17823.07	31.9	17903	17842.97	32.57
	50	2op	17893	17844.3	22.77	17893	17852.53	19.74	17899	17856.13	27.9	17939	17856.37	32.43
	20	rnd	17917	17826.9	41.86	17943	17833.93	44.83	17900	17830.8	37.74	17943	17852.17	44.84
		2op	17870	17835.87	21.68	17906	17847.8	23.48	17907	17848.8	28.36	17938	17855.77	32.2

Table A.2139: $f_{508.354}$: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17882	17824.03	38.96	17898	17791.37	42.74	17846	17786.6	37.44	17868	17812.37	38.99
		2op	17882	17811.93	29.43	17867	17785.87	45.41	17869	17788.27	39.61	17871	17790.5	39.23
	50	rnd	17913	17828.4	38.44	17871	17790.27	36.87	17853	17794.83	35.53	17860	17789.63	44.24
51	20	2op	17891	17816.87	32.62	17893	17801.77	40.16	17852	17784.07	35.62	17907	17802.3	46.3
		rnd	17879	17829.53	30.12	17893	17787	45.28	17916	17812.3	40.79	17882	17814.2	43.46
	50	2op	17881	17839.87	24.92	17860	17791	44.06	17900	17799.3	39.62	17877	17799.5	36.62
	20	rnd	17919	17831.37	41.53	17875	17799.17	43.37	17873	17798.67	33.64	17872	17797.43	43.21
		2op	17902	17835.2	34.87	17875	17801.37	40.68	17887	17812.07	34.15	17879	17805.6	43.83

Table A.2140: $f_{508.354}$: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17888	17832.7	36.61	17866	17793.77	39.56	17863	17801.4	34.95	17869	17805.57	33.24
		2op	17885	17842.43	23.87	17891	17808.17	40.78	17876	17793.1	33.26	17867	17787.23	48.49
	50	rnd	17890	17816.8	33.66	17863	17802.13	32.26	17864	17791.43	41.69	17852	17794.77	29.98
51	20	2op	17874	17837.57	17.89	17897	17809.57	43.67	17891	17803.77	37.65	17865	17808.03	31
		rnd	17856	17807.6	32.44	17877	17803.53	37.68	17887	17797.93	33.37	17893	17794.17	46.18
	50	2op	17884	17844.13	21.43	17883	17814.17	33.79	17894	17810.27	40.36	17884	17806.5	37.81
	20	rnd	17901	17820.37	33.26	17887	17811.07	29.81	17863	17796.7	41.73	17881	17794.9	38.88
		2op	17866	17834.4	17.04	17877	17813.83	37.2	17860	17794	38.74	17886	17811.33	41.56

Table A.2141: $f_{508.354}$: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22205	22104.07	44.5	22119	22061.3	38.83	22168	22074.7	46.52	22170	22090.2	47.32
		2op	22156	22090.63	40.98	22167	22072.3	50.97	22156	22071.9	47.56	22144	22078.27	37.55
	50	rnd	22201	22082.6	47.09	22134	22075.7	42.4	22132	22074.4	42.31	22159	22098.97	34
		2op	22178	22091.5	44.88	22155	22078.7	36.96	22166	22067.2	43.91	22174	22090.9	42.48
51	20	rnd	22185	22100.23	30.99	22152	22090.2	35.13	22168	22085.2	41.28	22166	22082.93	46.09
		2op	22197	22105.7	41.78	22158	22091.23	36.83	22119	22068.1	37.63	22180	22088.37	43.01
	50	rnd	22181	22107.23	42.88	22167	22089.37	36.48	22198	22091.03	50.41	22202	22084.97	54.17
		2op	22145	22099.2	30.3	22180	22103.1	47.47	22195	22097.2	50.52	22158	22081.7	44.86

Table A.2142: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22194	22106.67	46.37	22161	22109.07	34.92	22191	22115.9	40.57	22171	22091.37	40.68
		2op	22207	22151.47	24.94	22199	22158.77	27.73	22222	22157	40.74	22172	22112.3	43.08
	50	rnd	22175	22097.37	49.37	22226	22120.43	49.33	22236	22117.93	44.21	22187	22108.8	36.73
		2op	22218	22147.4	28.88	22234	22157.27	27.56	22213	22158.87	35	22177	22120.37	36.48
51	20	rnd	22175	22098.3	41.05	22178	22115.97	41.55	22214	22119.7	32.65	22214	22121.1	45.48
		2op	22212	22150.23	27.89	22215	22156.73	28.48	22223	22165.47	29.63	22219	22147.73	35.64
	50	rnd	22211	22093.27	49.59	22201	22112.33	40.72	22187	22113.03	38.99	22174	22114.8	38.35
		2op	22191	22145.07	27.14	22197	22147.47	32.27	22210	22163.57	24.66	22239	22163.4	29.8

Table A.2143: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22178	22101.7	42.17	22189	22086.57	42.69	22152	22077.8	39.27	22181	22078.1	50.59
		2op	22144	22079.2	35.98	22207	22082.5	47.5	22147	22071.43	39.76	22180	22077.23	44.86
	50	rnd	22172	22091.4	44.11	22157	22089.57	44.72	22156	22077.93	41.11	22144	22070.6	45.01
		2op	22166	22070.97	37.86	22134	22078.5	30.32	22141	22071.8	40.07	22158	22064.9	52.44
51	20	rnd	22167	22102.4	41.83	22182	22091.7	45.07	22174	22096.9	37.56	22170	22083.93	43.57
		2op	22199	22100.27	54.04	22171	22096.4	37.92	22153	22075.23	46.27	22164	22068.03	49.36
	50	rnd	22151	22092.67	37.38	22174	22087.33	40.13	22145	22081.53	43.42	22149	22069.53	46.68
		2op	22167	22100.27	50.14	22182	22107.8	46.03	22174	22071.6	38.34	22145	22082.63	46.24

Table A.2144: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22188	22115.33	38.95	22194	22128.97	39.41	22186	22117.47	31.2	22174	22088.57	49.48
		2op	22211	22156.7	25.97	22196	22163.63	23.28	22243	22150.83	34.62	22208	22132.13	37.65
	50	rnd	22176	22093.3	43.12	22198	22107.03	44.64	22200	22112.97	36.85	22189	22119	37.32
51	20	2op	22195	22159.73	23.53	22210	22150.9	29.1	22249	22165.57	34.78	22205	22119.83	40.02
		rnd	22222	22112.7	39.32	22193	22118.57	38.11	22196	22122.27	44.08	22204	22121.57	38.65
	50	2op	22232	22156.93	28.23	22240	22154.8	26.27	22219	22168.2	25.16	22261	22138.23	45.41
	50	rnd	22172	22095.4	44.23	22184	22109.8	31.5	22200	22118.97	34.67	22198	22132.27	40
		2op	22209	22144.67	30.52	22216	22149.73	30.02	22234	22164.33	29.39	22225	22153.23	36.11

Table A.2145: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22181	22102.53	43.73	22174	22059.8	54.1	22154	22062.53	49.22	22152	22077.17	37.72
		2op	22202	22097.3	47.1	22131	22064.2	42.08	22158	22063.1	50.49	22162	22086.13	44.79
	50	rnd	22162	22098.57	32.67	22152	22073.93	47.5	22185	22079.8	46.64	22203	22071.73	52.47
51	20	2op	22145	22094.3	30.45	22130	22062.3	42.52	22128	22075.97	34.85	22149	22079.2	40.23
		rnd	22201	22115.43	43.29	22201	22103.67	44.44	22190	22075.07	48.38	22123	22049.2	45.46
	50	2op	22176	22123.9	40.72	22180	22097.7	48.48	22167	22075.87	47.01	22154	22064	43.99
	50	rnd	22192	22105.83	33.56	22192	22102.73	41.43	22185	22068.3	48.57	22208	22055	45.77
		2op	22197	22133.53	31.74	22197	22097.7	43.63	22167	22076.2	42.54	22161	22074.77	47.28

Table A.2146: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22190	22106.33	43.77	22160	22074.67	47.28	22137	22070.47	43	22163	22079.3	39.06
		2op	22204	22151.8	26.06	22186	22068.33	54.4	22172	22080.23	45.41	22143	22070.03	44.05
	50	rnd	22163	22095	39.45	22185	22086	62.88	22181	22083.73	49.3	22191	22073.93	46.53
51	20	2op	22205	22155.93	30.45	22166	22086.53	41.66	22147	22074.9	49.23	22188	22085	44.9
		rnd	22179	22119	34.67	22171	22097.67	46.1	22131	22083.07	35.71	22181	22078.17	54.38
	50	2op	22222	22147.63	32.79	22169	22077.63	36.25	22183	22065.53	48.93	22128	22066.73	34.79
	50	rnd	22187	22074.13	53.19	22187	22093.33	44.94	22181	22086.93	44.24	22155	22075.1	44.17
		2op	22196	22147	25.87	22162	22100.27	37.51	22182	22074.9	41.86	22141	22073.43	41.73

Table A.2147: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24773	24673.1	45.73	24777	24679	37.7	24779	24686.27	45.04	24786	24681.8	55.98
		2op	24822	24689.3	62.46	24798	24679.33	59.04	24805	24675.97	52.76	24783	24684.57	44.52
	50	rnd	24788	24680.63	54.44	24764	24672.27	43.74	24761	24684.33	46.65	24785	24682.1	52.14
51	20	2op	24761	24682.07	45.63	24794	24685	40.39	24752	24673.6	42.18	24770	24694.13	33.54
		rnd	24829	24709.93	50.48	24806	24699.5	44.12	24790	24684.03	52.91	24790	24681.57	56.87
	50	2op	24759	24690.07	40.69	24774	24692.87	45.75	24760	24686.23	40.1	24766	24685.73	49.66
	20	rnd	24740	24679.13	39.82	24814	24691.6	48.13	24794	24691.57	49.91	24761	24679.63	45.82
		2op	24774	24698.8	35.47	24787	24689.73	45.75	24792	24685.97	45.94	24765	24681.1	46.02

Table A.2148: f_{737_355} : basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24813	24737.03	34.8	24820	24724.9	50.15	24844	24733.67	50.88	24777	24700.07	52.45
		2op	24778	24722.37	32.39	24827	24751.1	38.21	24799	24728.17	47.45	24787	24702.9	53.27
	50	rnd	24808	24701.03	58.45	24798	24710.5	39.86	24823	24737.5	35.95	24855	24735.67	45.64
51	20	2op	24813	24711.93	42.45	24791	24729.17	36.62	24810	24731.83	39.87	24790	24718.3	37.33
		rnd	24807	24727.5	41.45	24803	24734.37	39.64	24831	24735.47	35.53	24806	24729.77	43.43
	50	2op	24793	24724.07	38.77	24795	24725.4	33.38	24800	24742	29.88	24785	24718.8	39.04
	20	rnd	24761	24700.57	44.98	24801	24703.23	45.56	24812	24721.47	45.67	24808	24729.3	45.7
		2op	24759	24714.13	25.58	24806	24733.33	35.97	24794	24728.87	29.66	24820	24744.9	36.69

Table A.2149: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24790	24683.97	51.08	24784	24687.2	53.79	24786	24660.87	59.51	24815	24682.5	58.36
		2op	24749	24677.87	41.49	24759	24670.83	38.19	24748	24667.5	49.35	24770	24691.57	44.81
	50	rnd	24776	24688.07	56.02	24766	24670.5	47.26	24753	24687.33	41.26	24767	24680.13	47.66
51	20	2op	24783	24687.53	50.83	24761	24686.4	54.25	24763	24683.2	42.7	24796	24692.6	62.41
		rnd	24767	24687	41	24793	24697.57	66.42	24781	24692.57	45.73	24778	24684.77	46.77
	50	2op	24797	24694.53	43.84	24770	24689.57	45.95	24775	24681	47.64	24801	24703.53	53.69
	20	rnd	24796	24704.47	51.17	24812	24700.73	41.96	24761	24682.97	48.27	24756	24675.67	45.02
		2op	24792	24687.73	38.9	24837	24708.9	50.33	24761	24682.4	39.42	24781	24689.03	38.97

Table A.2150: f_{737_355} : basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24799	24716.13	53.47	24831	24757.13	38.33	24807	24727.2	39.88	24787	24695.43	47.04
		2op	24784	24726.13	31.04	24795	24732.43	29.74	24803	24735.73	34.77	24819	24699.23	54.44
	50	rnd	24770	24698.57	36.61	24812	24719.57	49.73	24830	24729.67	39.23	24808	24711.57	52.21
51	20	2op	24795	24708.6	40.95	24836	24738.2	35.53	24812	24745.27	35.1	24799	24718.63	44.24
		rnd	24799	24717.37	37.28	24840	24723.4	47.62	24817	24723.03	43.85	24808	24731.97	41.25
	50	2op	24788	24711.1	29.32	24823	24730.53	39.9	24777	24725.03	26.1	24823	24731.37	33.53
	50	rnd	24820	24715.5	43.93	24837	24728	48.34	24832	24716.67	55.31	24820	24708.7	42.38
		2op	24764	24699.8	31.21	24817	24731	40.91	24792	24735.4	33.34	24790	24735.5	37.6

Table A.2151: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24821	24706.67	48.75	24761	24675.87	51.37	24729	24660.17	44.24	24784	24675.83	58.56
		2op	24785	24685.03	42.71	24740	24659.7	55.45	24745	24661.97	52.94	24755	24675.37	48.98
	50	rnd	24794	24703.37	47.62	24769	24677.17	45.44	24791	24665.87	48.43	24773	24677.73	54.18
51	20	2op	24774	24694.8	54.2	24751	24662.33	48.7	24774	24679.97	45.07	24804	24669	57.41
		rnd	24781	24713.8	34.54	24764	24706.5	34.9	24785	24678	53.15	24755	24686.83	42.74
	50	2op	24759	24700.97	32.8	24759	24700.97	32.8	24734	24666.37	40.57	24811	24664.67	52.3
	50	rnd	24766	24710.2	33.24	24766	24710.2	33.24	24725	24659.67	41.05	24739	24664.17	42.1
		2op	24795	24707.97	35.63	24795	24710.37	36.92	24765	24667.03	43.57	24770	24672.83	45.07

Table A.2152: f_{737_355} : basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24854	24723.5	44.06	24808	24674.43	55.87	24787	24663.6	38.47	24750	24666.7	46.71
		2op	24782	24724.23	28.01	24768	24668.8	50.8	24763	24666.23	49.87	24774	24669.3	49.09
	50	rnd	24764	24694.57	41.28	24782	24683.6	47.15	24766	24678.8	43.17	24817	24673.57	59.96
51	20	2op	24765	24708.7	31.76	24798	24672.83	52.97	24777	24676.43	53.22	24793	24674.3	59.05
		rnd	24803	24713.63	37.83	24776	24687.73	39.44	24742	24679.97	40.45	24787	24680.23	52.91
	50	2op	24791	24718.2	35.94	24763	24689.6	42.61	24789	24675.33	57.4	24736	24656.27	47.19
	50	rnd	24760	24696.47	34.99	24770	24693.4	39.6	24755	24679.63	44.74	24715	24657.17	48.57
		2op	24773	24704.27	34.29	24793	24685.7	45.93	24779	24682.03	51.72	24777	24680.27	48.17

Table A.2153: f_{737_355} : transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48140	47889.87	94.47	48054	47894.1	78.03	48100	47881.43	96.89	48076	47904.73	76.44
		2op	48007	47909.7	69.8	48080	47885.37	78.46	48029	47897.37	77.38	48065	47890.73	78.19
	50	rnd	48077	47924.5	76.41	48011	47903.87	53.6	48006	47891.5	67.27	48076	47893.57	81.8
51	20	rnd	48081	47912.47	92.08	48033	47887.4	86.99	47994	47870.57	72.97	48015	47897.7	77.23
		2op	48122	47922.63	85.48	48149	47908.9	70.39	48097	47898.67	85.86	48034	47896.07	76.1
	50	rnd	48042	47920.17	58.8	48011	47883.5	70.22	48060	47920.2	73.52	47994	47875.23	64.5
	20	rnd	48144	47937.7	74.24	48086	47929.37	82.51	48025	47884.17	72.78	48044	47893.53	67.08
		2op	48073	47944.7	71.18	48070	47927.33	68.73	48074	47893.5	78.2	48042	47881.97	67.56

Table A.2154: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48142	47980.63	78.81	48122	47988.53	87.91	48149	47995.67	63.32	48089	47940.7	70.38
		2op	48123	48008.87	49.14	48118	48024.17	49.58	48205	48032.8	72.97	48136	47971.13	83.38
	50	rnd	48112	47960.27	73.88	48106	47987.63	64.64	48115	47985.43	69.67	48111	47970.77	68.75
51	20	rnd	48126	47997.17	53.69	48197	48029.73	56.59	48172	48068.2	56.38	48099	47999.6	52.1
		2op	48127	47961.23	79.58	48161	47999.03	61.16	48092	47991.6	62.25	48181	47992.9	75.13
	50	rnd	48119	48008.03	47.43	48126	48035.57	59.73	48221	48050.23	59.63	48104	48023.4	47.03
	20	rnd	48099	47955.93	73.04	48093	47970.67	69.48	48089	47998.9	65.15	48157	47982.97	58.59
		2op	48093	47983.47	57.65	48128	48009.7	57.78	48183	48035.63	72.45	48142	48030.4	57.95

Table A.2155: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48045	47886.47	76.22	48006	47884.37	64.87	48003	47864.5	78.45	48172	47902.13	92.76
		2op	48108	47916.67	85.28	48105	47886.97	88.68	47990	47881.13	70.97	48066	47906.53	67.65
	50	rnd	48086	47912.6	84.82	48035	47889.63	78.19	48069	47892.87	71.85	48044	47903.9	85.64
51	20	rnd	48126	47880.93	80.81	48024	47881.83	63.72	47974	47884.73	61.15	48043	47895.33	87.85
		2op	48132	47943.23	85.74	48017	47917.67	65.65	48022	47851.23	75.06	48046	47898.77	74.93
	50	rnd	48057	47930.3	81.24	48041	47916.77	72.27	48003	47887.2	70.78	48095	47907.63	65.21
	20	rnd	48072	47949.77	71.3	48111	47924.9	89.11	48101	47919.93	91.15	48043	47878.6	104.79
		2op	48036	47940.07	53.56	48058	47948.3	80.88	48005	47887.2	69.84	48002	47865.53	75.77

Table A.2156: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48112	47979.83	80.95	48209	48010.23	78.91	48164	48005.6	85.35	48166	47976.1	78.1
		2op	48140	48017.97	52.63	48168	48022.27	65.09	48164	48025.27	54.99	48092	47938.23	75.38
	50	rnd	48108	47976.93	67.82	48121	48003.5	56.7	48173	48006	62.87	48114	47973.4	82.42
51	20	2op	48155	47984.1	60.5	48195	48014.4	79.91	48188	48052.47	64.87	48118	47983.27	69.7
		rnd	48088	47981.7	67.5	48117	47967.27	70.18	48145	48012.93	59.06	48145	48001.2	61.28
	50	2op	48121	48015.87	53.43	48160	48034.23	64.2	48205	48034.93	60.32	48170	48022.17	82.13
	50	rnd	48122	47950.9	70.07	48099	47969.77	63.22	48130	47986.7	63.64	48157	48013.27	86.55
		2op	48123	47999.97	60.59	48170	48030.8	57.3	48085	48014.57	53.16	48128	48022.13	60.82

Table A.2157: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48096	47920.53	75.26	48096	47920.53	75.26	48017	47855.87	75.08	48088	47869.13	83.32
		2op	48112	47918	72.46	48112	47918	72.46	47999	47844.7	86.48	47996	47866.47	79.72
	50	rnd	48076	47928.8	73.54	48076	47928.8	73.54	48006	47864.87	70.62	48017	47864.57	76.86
51	20	2op	48067	47935.53	83.82	48067	47935.53	83.82	48040	47872.77	79.61	48014	47877.67	68.34
		rnd	48095	47964.87	71.36	48095	47964.87	71.36	48063	47839.7	89	47970	47869	79.64
	50	2op	48048	47956.93	52.83	48048	47956.93	52.83	48054	47881.53	87.54	48048	47888.83	78.35
	50	rnd	48092	47949.93	77.01	48092	47949.93	77.01	48064	47882.13	86.83	48027	47853.7	81.23
		2op	48100	47934.87	89.34	48100	47934.87	89.34	48038	47882.7	81.23	48025	47886.9	64.72

Table A.2158: f_{1343_354} : basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48142	47990.3	74.1	48020	47875.8	82.93	48121	47877.03	92.43	48038	47888.37	67.83
		2op	48112	48014.53	52.74	48079	47877.17	89.34	48075	47872.93	70.38	47966	47846.6	96.66
	50	rnd	48084	47962.13	61.27	47970	47860.3	73.8	47976	47871.27	65.61	47973	47861.4	73.38
51	20	2op	48157	47999.53	75.29	48071	47896.43	83.46	48029	47860.8	87.3	47960	47881.03	61.56
		rnd	48128	47986.8	70.7	48068	47899.53	83.98	48016	47860.4	72.88	48032	47888.1	84.61
	50	2op	48221	48035.37	60.7	48007	47880.33	70.07	48051	47864.63	83.2	48042	47867.3	72.28
	50	rnd	48132	47960.5	82.23	48018	47881.17	73.07	48019	47887.83	78.14	48084	47895.67	85.39
		2op	48072	47990.43	57.77	48030	47899.53	71.39	48020	47852.67	70.71	47989	47867.27	70.98

Table A.2159: f_{1343_354} : transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56130	55991	74.38	56139	55970.47	73.08	56270	55991.83	107.1	56207	56042.37	74.2
		2op	56130	56019.4	73.1	56167	56005.67	89.31	56205	55973.8	85.56	56155	55989.7	79.41
	50	rnd	56164	56024.97	63.79	56200	55984.43	101.77	56128	55974.17	71.76	56168	56007.23	68.47
51	20	rnd	56192	56026.27	83.46	56113	55980.93	69.05	56127	55983.83	80.06	56173	55998.5	74.15
		2op	56199	55999.97	88.37	56195	56007.37	95.14	56082	55980.27	76.48	56087	55954.73	85.16
	50	rnd	56209	56023.37	77.16	56145	56002.83	85.31	56111	55984.8	76.68	56138	56018.53	65.95
	20	rnd	56159	56008.6	87.09	56175	56044	71.33	56122	55991.5	85.59	56187	55978.73	99.69
		2op	56174	56031.2	86.91	56241	56052.63	83.28	56132	55994.43	82.74	56170	55976.53	94.57

Table A.2160: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56200	56072.87	97.69	56314	56144.43	67	56281	56143.6	80.92	56215	56043.8	79.55
		2op	56304	56085.8	77.4	56207	56121.37	57.79	56270	56153.57	75.53	56292	56102.37	77.87
	50	rnd	56275	56049.47	86.4	56214	56092.97	75.53	56257	56128.3	78.43	56283	56089.9	84.67
51	20	rnd	56246	56068.73	71.38	56233	56097.43	65.22	56274	56149.5	65.75	56289	56112.87	74.86
		2op	56232	56075.23	79.87	56271	56120.3	63.21	56332	56138.53	77.78	56245	56082.47	75.47
	50	rnd	56162	56075	62.99	56206	56079.3	61.71	56252	56143.43	66.74	56319	56153.63	76.42
	20	rnd	56203	56051.23	73.18	56223	56093.3	68.63	56209	56072.4	57.52	56291	56142.37	87.28
		2op	56161	56047.37	66.15	56234	56078.43	73.3	56214	56109.93	57.84	56300	56137.43	76.07

Table A.2161: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56134	55979.33	91.3	56133	56002.87	63.96	56128	55990.5	85.97	56158	56015.47	72.28
		2op	56164	55979.7	96.78	56185	55996.73	92.2	56224	55960.03	108.39	56133	55977.83	72.34
	50	rnd	56142	56000.63	69.08	56106	55987.4	65.68	56199	55974.27	73.83	56208	56001.47	89.98
51	20	rnd	56222	56020.3	77.39	56170	55978.03	94.7	56114	55986.87	77.88	56254	56015.6	85.45
		2op	56170	56020.6	75.25	56170	56006.17	86.23	56214	55969.6	99.59	56182	55967.2	88.96
	50	rnd	56185	56016.93	79.55	56203	56018.83	93.51	56131	55971	85.67	56177	55974.03	74.75
	20	rnd	56226	56024.83	86.46	56166	55999.37	92.47	56122	55987.33	73.48	56165	55996.03	76.41
		2op	56154	56028.73	95.1	56158	56023.1	70.95	56185	55987.07	84.39	56221	55977.97	76

Table A.2162: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56226	56082.23	72.26	56257	56130.97	56.19	56236	56127.33	62.6	56240	56038.5	92.89
		2op	56230	56085.7	74.19	56219	56111.03	60.73	56306	56145.67	74.23	56200	56063.5	82.45
	50	rnd	56235	56101.27	68.93	56277	56106.97	85.03	56297	56118.2	72.01	56181	56048.4	67.86
51	20	rnd	56248	56085.17	61.64	56245	56101.93	65.74	56326	56153.23	71.03	56263	56093.67	78.63
		2op	56236	56096.67	71.42	56249	56081.1	77.39	56239	56099.93	69.5	56256	56116.67	65.58
	50	rnd	56254	56096.93	67.03	56222	56119.97	53.97	56248	56138.73	56.6	56281	56160.97	71.31
	20	rnd	56251	56074.97	84.09	56259	56068.33	78.53	56238	56131.8	54.68	56306	56135.97	68.6
		2op	56154	56059.73	50.11	56295	56099.4	69.81	56252	56107.37	69.47	56261	56149.27	62.08

Table A.2163: *f1577_354*: transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56135	56004.4	66.59	56135	56004.4	66.59	56151	55938.6	88.01	56129	55957.07	79.92
		2op	56202	56011.6	88.3	56202	56011.6	88.3	56154	55959.47	105.83	56135	55963.1	62.15
	50	rnd	56176	56002.7	98.01	56176	56002.7	98.01	56142	55948.2	95.13	56044	55909.77	83.33
51	20	rnd	56155	56012.67	92.88	56155	56012.67	92.88	56094	55935.7	77.14	56124	55960.5	89.53
		2op	56202	56008.57	91.75	56202	56008.57	91.75	56144	55946.33	84.17	56108	55966.23	94.95
	50	rnd	56256	56051.57	94.64	56256	56051.57	94.64	56248	55955.17	110.53	56129	55948.9	98.16
	20	rnd	56231	56029.33	88.16	56231	56029.33	88.16	56160	55931.03	101.23	56145	55952	72.79
		2op	56192	56022.33	79.52	56192	56022.33	79.52	56189	55976.93	111.19	56090	55951.6	84.13

Table A.2164: *f1577_354*: basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56240	56098.2	81.88	56131	55974.03	88.75	56091	55974.57	70.77	56158	55978.1	78.48
		2op	56174	56085.03	50.11	56100	55946.73	83.88	56162	56007.8	87.6	56094	55972.3	69.77
	50	rnd	56224	56077.77	76.16	56243	55983.7	97.15	56150	55990.03	87.96	56147	55956.53	87.96
51	20	rnd	56187	56055.73	64.34	56181	55973.5	108.15	56081	55961.07	63.22	56196	55988.2	93
		2op	56232	56082.5	88.33	56179	55993.83	96.41	56132	55970.37	74.25	56187	55958	95
	50	rnd	56170	56053.3	64.35	56122	55970.8	85.51	56176	55968.73	86.79	56138	55961.77	79.6
	20	rnd	56211	56077.97	81.24	56166	55972.63	74.19	56092	55952.67	61.37	56094	55930.83	91.01
		2op	56163	56052.53	61.39	56221	56004.07	85.28	56184	55970.6	91.7	56124	55982.27	68.27

Table A.2165: *f1577_354*: transRRGA+IM – Suspected Optimal is 57373

A.6.4 Fourth Set of Results

Results With No Post Optimization and No Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47328	47223.07	62.12	47343	47206.77	61.74	47394	47211.87	80.39	47344	47225.17	77.3
		2op	47367	47307.3	29.62	47359	47280.23	21.13	47274	47274	0	47274	47274	0
	50	rnd	47337	47228.8	72.62	47443	47284.9	62.51	47336	47210.63	75.73	47321	47177.3	66.83
51	20	rnd	47399	47329.33	29.56	47368	47305	30	47325	47275.7	9.31	47274	47274	0
		2op	47345	47230.7	74.53	47421	47308.03	53	47338	47206.13	72.12	47341	47208.73	87.12
	50	rnd	47395	47316.93	33.89	47412	47335.6	37.79	47365	47279.37	20.61	47274	47274	0
	20	rnd	47322	47245.77	62.29	47442	47333.13	56.8	47386	47245.73	69.47	47359	47243.27	86.58
		2op	47401	47322.47	30.49	47430	47364.13	27.05	47344	47276.33	12.78	47274	47274	0

Table A.2166: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47307	47106.07	124.64	47270	47086	112.64	47274	47274	0	47274	47274	0
		2op	47343	47294.93	21.32	47290	47274.97	3.29	47274	47274	0	47274	47274	0
	50	rnd	47279	47095.23	120.12	47366	47151.2	118.27	47287	47272.47	11.11	47274	47274	0
51	20	rnd	47354	47305.23	19.48	47363	47294	24.52	47287	47274.43	2.37	47274	47274	0
		2op	47350	47186.67	100.25	47363	47240.63	76.18	47392	47145.37	120.77	47274	47274	0
	50	rnd	47385	47294.9	23.54	47364	47311.13	23.24	47285	47274.67	2.55	47274	47274	0
	20	rnd	47291	47170.13	86.81	47457	47280.93	101.34	47356	47150.27	118.47	47274	47274	0
		2op	47355	47303.73	22.05	47388	47341.07	24.77	47284	47274.33	1.83	47274	47274	0

Table A.2167: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47329	47207.83	66.03	47344	47241.63	67.08	47365	47205.9	76.91	47429	47206.93	96.41
		2op	47390	47319.7	34	47360	47283.57	22.98	47274	47274	0	47274	47274	0
	50	rnd	47397	47227.57	51.81	47416	47268.07	77	47345	47172.8	89.31	47310	47174.8	86.64
51	20	rnd	47398	47334.07	34.58	47398	47314.33	38.84	47274	47274	0	47274	47274	0
		2op	47336	47248.33	61.89	47388	47310.8	47.3	47340	47203.67	70.03	47356	47180.4	112.18
	50	rnd	47377	47307.37	32.86	47414	47340.7	32.72	47357	47276.77	15.15	47274	47274	0
	20	rnd	47386	47252.1	59.59	47401	47337.93	43.3	47402	47253.6	67.49	47409	47242	77.51
		2op	47408	47322.27	35.97	47426	47366	25	47359	47283.93	22.75	47274	47274	0

Table A.2168: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47282	47131.1	97.9	47302	47094.2	122.56	47274	47274	0	47274	47274	0
		2op	47382	47301.63	26.11	47305	47277.23	8.66	47274	47274	0	47274	47274	0
	50	rnd	47354	47110.8	121.2	47350	47136.83	122.8	47274	47253.6	67.1	47274	47274	0
51	20	rnd	47332	47161.27	86.45	47375	47230.47	78.87	47292	47153.7	76.35	47274	47274	0
		2op	47333	47294.8	20.27	47408	47317.7	30.75	47317	47275.43	7.85	47274	47274	0
	50	rnd	47301	47145.13	108.85	47440	47299.63	89.96	47358	47127.93	126.28	47274	47271.8	12.05
		2op	47356	47305.17	21.48	47426	47351.63	27.85	47340	47278.53	13.12	47274	47274	0

Table A.2169: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47320	47218.1	55.34	47355	47220.3	69.19	47354	47209.63	74.77	47362	47197.83	71.68
		2op	47371	47318.43	26.16	47366	47297.97	29.51	47274	47274	0	47274	47274	0
	50	rnd	47312	47240.9	47.77	47374	47220.6	66.15	47328	47223.47	65.37	47330	47211.03	88.71
51	20	rnd	47407	47336.87	31.21	47401	47315.2	35.65	47274	47274	0	47274	47274	0
		2op	47340	47229.83	58.71	47352	47227.23	57.61	47320	47183.97	72.58	47399	47213.5	87.51
	50	rnd	47381	47333.47	22.11	47383	47330.9	26.7	47313	47275.3	7.12	47274	47274	0
		2op	47365	47285.43	45.94	47384	47269	67.37	47353	47243.83	70.32	47304	47183.93	91.43
		2op	47381	47339.6	24.24	47426	47330.27	37.84	47290	47274.53	2.92	47274	47274	0

Table A.2170: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47346	47171.27	94.15	47323	47134.57	96.5	47274	47265.97	44	47274	47274	0
		2op	47348	47302.23	21.82	47348	47289.4	21.97	47274	47274	0	47274	47274	0
	50	rnd	47406	47218.33	99.5	47385	47193.9	103.48	47274	47252.83	55.15	47274	47274	0
51	20	rnd	47353	47317.77	20.88	47331	47296.7	19.94	47274	47274	0	47274	47274	0
		2op	47359	47264.33	50.92	47341	47251.27	53.17	47419	47233.7	94.18	47274	47274	0
	50	rnd	47390	47334.43	26.3	47379	47327.07	27.93	47284	47274.33	1.83	47274	47274	0
		2op	47412	47300.03	52.84	47395	47277.5	54.89	47367	47189.37	75.36	47274	47274	0
		2op	47443	47340.57	36.25	47436	47317.9	43.92	47290	47274.53	2.92	47274	47274	0

Table A.2171: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151322	151152.63	125.35	151271	151147.33	116.02	151231	151110.33	160.91	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151254	151169.1	51.02	151291	151166.2	60.73	151255	151124.43	146.59	151171	151150.7	3.83
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151279	151120.77	125.61	151216	151149.03	53.11	151291	151149.17	112.13	151228	151151.3	21.59
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151249	151138.93	45.97	151229	151160.2	48.91	151279	151161.67	53.54	151215	151086.2	177.9
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2172: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151224	150907.87	334.57	151256	151153.53	19.35	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151210	150947.57	269.13	151249	151037.9	283.29	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151244	150969.93	305.05	151249	150890.73	368.58	151150	151147.2	15.34	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151254	151070.87	201.37	151295	151061.53	238.86	151227	151117.5	117.12	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2173: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151288	151139.57	118.36	151260	151139.43	113.88	151220	151145.6	28.64	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151272	151151.3	47.2	151237	151156.8	51.07	151226	151121.77	149.72	151150	151149.8	1.1
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151262	151142.3	117.27	151293	151153.13	64.68	151229	151087.33	184.83	151259	151153	34.39
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151236	151140.43	47.58	151249	151160.63	43.71	151273	151173.67	47.23	151223	151125.5	110.01
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2174: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151275	151065.8	202.88	151245	151128.6	108.42	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151220	150989.1	280.14	151267	151039.07	309.08	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151280	151023.7	289.64	151306	151071	235.96	151170	151129.17	117.94	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151233	151037.53	208.2	151237	151040.83	268.83	151172	151046.43	256.19	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2175: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151241	151159.63	44.85	151263	151159.03	49.54	151228	151133.9	107.77	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151266	151165.7	46.99	151217	151126.1	104.71	151297	151119.27	178.83	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151240	151146.23	49.16	151245	151157.07	45.82	151256	151169.07	57.18	151150	151149.27	4.02
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151299	151167.47	51.98	151259	151159.23	58.32	151222	151151.7	43.52	151295	151147.47	38.1
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2176: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151265	151111.93	171.47	151255	151095.3	202.53	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151266	151077	282.8	151227	150968.7	306.24	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151290	151109.23	210.85	151290	151112.23	210.97	151249	151105.17	170.81	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151228	151081.07	207.51	151235	151076.93	207.62	151266	151093.37	218.88	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2177: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167325	166955.17	205.51	167284	166868.83	248.66	167320	166836.37	259.86	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167309	166965.7	180.76	167416	167042.27	237.21	167304	166918.57	180.5	167256	166586.87	187.24
51	20	rnd	167332	166960.43	228.42	167331	167031.3	182.67	167335	166817.03	263.63	167127	166653.47	228.62
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167363	166965.77	172.33	167351	167124.5	175.11	167282	166869.1	247.93	167235	166857.63	212.57
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2178: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167083	166465.67	294.78	166879	166513.23	271.97	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166980	166376	300.81	166903	166410.9	325.13	166520	166520	0	166520	166520	0
51	20	rnd	167096	166520.43	344.98	166930	166509.13	287.68	166880	166536.73	153.41	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166921	166499.1	317.34	166768	166518.6	227.41	166911	166501.33	291.39	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2179: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167387	166917.97	218.43	167216	166874.57	199.53	167287	166731.03	229.52	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167403	166940.03	232.47	167337	166942.97	216.17	167350	166823.83	198.99	167018	166578.4	143.63
51	20	rnd	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167395	166992.37	185.38	167318	167002.63	203.72	167292	166878.47	208.76	167126	166740	227.78
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
			167314	166955.27	193.81	167404	167183.33	141.43	167284	166907.6	217.01	167156	166867.97	194.35
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2180: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166930	166544.23	300.66	166749	166470.63	256.37	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166976	166466.13	344.2	166876	166408	317.92	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	166952	166532.33	267.19	166967	166482.87	267.92	166751	166491.67	152.46	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166964	166578.67	336.85	167015	166527.3	314.2	166894	166541.67	217.32	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2181: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167318	167006.8	203.65	167301	166973.4	193.54	167368	166960.43	219.45	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167360	167025	183.2	167395	167012.03	227	167321	166876.83	170.75	166815	166529.83	53.86
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167330	167008.57	155.69	167315	167009.43	169.14	167234	166925.63	200.5	166974	166549.3	111.57
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167373	167032.73	199.07	167413	167015.2	192.34	167363	166940.4	227.5	167245	166841.43	222.73
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2182: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166934	166528.37	295.43	166921	166517.4	318.91	166773	166526.6	49.18	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167029	166545.23	326.64	166862	166544.97	217.39	166929	166544.03	81.85	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167068	166723.37	199.72	167124	166727.47	199.16	167149	166739.63	193.94	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167016	166713.73	187.05	167016	166715.1	187.35	166922	166696.03	179.51	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2183: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163162	162964	82.69	163168	162983	90.22	163195	162993.23	89.87	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163191	162980.97	85.15	163085	162956.7	69.52	163112	162984.5	79.44	163118	162973.13	71.26
51	20	rnd	163151	162984.43	88.72	163150	163015.8	69.48	163093	162972.6	73.01	163182	162988.37	71.15
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163078	162971.73	65.78	163073	162981.23	66.59	163126	162949.43	92.28	163120	162980.43	70.72
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2184: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163097	162964.47	81.77	163080	162929.63	89.01	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163171	162939.33	118.26	163114	162934.1	84.08	163089	162980.57	50.75	162988	162988	0
51	20	rnd	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163106	162983.1	75.81	163120	162955.2	111.5	163086	162917.43	101.17	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2185: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163148	162965.5	68.67	163119	162971.9	75.51	163068	162973.47	45.34	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163098	162965.7	64.09	163095	162948	70.81	163100	162993.53	71.77	163083	162990.17	29.74
51	20	rnd	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163099	162990.73	76.52	163182	162995.73	73.74	163133	162968.67	70.55	163083	162969.97	56.31
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2186: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163070	162932.63	94.57	163100	162920.9	117.33	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163067	162925.13	113.67	163068	162937.23	102.08	163082	162960.2	81.58	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163120	162971.23	65.97	163085	162952.1	71.66	163092	162950.57	71.54	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163124	162945.23	109.16	163167	162943.3	86.03	163075	162940.57	108.62	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2187: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163134	162978.3	80.52	163117	162984.67	79.61	163118	162947.5	78.29	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163124	162973.1	87.98	163093	162997.8	56.61	163144	162984.17	77.96	163065	162961.67	114.09
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163161	162984.13	75.67	163133	162975.77	66.1	163154	162991.3	82.11	163104	162981.7	36.81
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163118	162985.87	71.3	163108	162979.93	91.08	163143	162997.37	64.08	163177	162976.97	111.1
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2188: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163047	162938.13	99.39	163116	162950.73	91.84	163056	162912.03	86.1	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163075	162970.9	64.49	163101	162944.57	78.29	163081	162948.13	78.24	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163043	162914.07	85.06	163043	162914.07	85.06	163047	162929.43	100.07	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163150	162967.63	89	163150	162967.63	89	163144	162920.8	93.27	162995	162986.37	10.35
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2189: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179884	179702.27	91.18	179868	179681.67	88.27	179865	179629.23	78.58	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179973	179737.87	97.25	179892	179717.17	94.65	179862	179682.43	102.86	179822	179620.43	44.13
51	20	rnd	179881	179721.77	85.33	179893	179678.23	111.08	179921	179699.43	100.01	179866	179653	86.12
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179846	179703.67	74.2	179961	179702.6	121.55	179869	179711.2	73.49	179975	179703.97	96.23
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2190: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179812	179677.5	88.01	179815	179690.97	76.49	179607	179607	0	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179878	179699.8	92.46	179860	179671.17	101.55	179839	179625.2	78.25	179607	179607	0
51	20	rnd	179922	179737.67	99.98	179841	179684.13	97.48	179856	179686.1	79.61	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179874	179707.1	86.07	179970	179709.27	120.48	179901	179686.87	90.38	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2191: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179865	179702.3	101.36	179891	179687.47	96.02	179937	179673.83	102.83	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179885	179702.5	87.81	179920	179702.07	87.97	179898	179707.27	87.84	179734	179615.7	53.58
51	20	rnd	179913	179738.73	87.62	179952	179730.4	92.83	180023	179712.1	102.42	179785	179645.03	55.96
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179949	179706.1	104.97	179836	179674.03	89.98	179931	179711.4	82.88	179932	179705.83	98.77
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2192: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179843	179698.07	83.7	179907	179688.4	91.56	179607	179607	0	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179870	179732.7	74.4	179892	179698.73	85	179872	179655.6	71.1	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179927	179724.2	85.27	179900	179686.1	111.9	179888	179681.8	86.82	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179833	179681.07	92.49	179848	179702.13	84.07	179920	179682.33	85.62	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2193: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179831	179719	80.84	179996	179707.37	90.83	179910	179710.17	85.27	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179854	179739.67	62.47	179911	179696.83	124.46	179854	179703.67	89.17	179759	179612.07	27.75
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179843	179709.4	89.13	179841	179686.77	81.47	179959	179708.97	82.57	179733	179613.83	26.73
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179845	179687.6	85.28	179877	179694.7	102.34	179952	179712.87	103.4	179879	179657.97	76.54
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2194: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179816	179685.17	86.78	179882	179677.47	89.57	179828	179676.57	87.56	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179901	179693.7	103.67	179958	179710.83	110.59	179872	179665.33	94.3	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179879	179695.03	85.52	179879	179695.03	85.52	179858	179678.13	98.57	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179916	179710.17	93.31	179916	179710.17	93.31	179827	179686.13	90.2	179642	179609.13	8.16
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2195: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343123	342867.97	134.26	343158	342851.93	215.75	343012	342805.37	114.07	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343171	342878.6	134.05	343131	342833.07	243.58	343099	342755.8	290.48	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343011	342846	122.13	343203	342882.63	168.5	343022	342814.7	173.26	342915	342771.93	34.32
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343120	342896.7	96.94	343118	342872.3	137.17	343084	342881.3	179.5	343110	342726.5	234.13
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2196: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343090	342627.93	408.14	342763	342763	0	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343130	342584.93	446.18	342835	342694.9	241.36	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343107	342631.63	402.65	343032	342629.67	374.91	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342996	342643.97	288.44	343092	342626.77	384.89	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2197: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343109	342870	117.2	343163	342796.17	306.15	343051	342799.57	106.84	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343100	342903.2	107.83	343049	342828.03	216.63	343173	342797.07	225.63	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343049	342871.6	102.32	343156	342873.77	154.27	343126	342818.87	208.11	343007	342786.9	66
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343181	342884.13	133.46	343066	342787.4	276.02	343136	342845.23	256.17	343090	342820	223.44
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2198: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343093	342585.37	392.07	342763	342763	0	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343091	342580.7	393.26	342861	342717.93	190.04	342763	342763	0	342763	342763	0
51	20	rnd	343064	342596.8	428.76	343168	342543.17	452.8	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343111	342806	235.38	343034	342764.27	252.67	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2199: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343125	342898.8	104.66	343129	342886.23	152.23	343091	342732.27	283.51	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343147	342945.97	91.11	343169	342926.93	94.31	343118	342760.43	244.79	342763	342763	0
51	20	rnd	343118	342905	141.81	343092	342881.43	154.54	343208	342836.2	264.59	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343114	342874.8	108.34	343126	342884.17	100.63	343089	342893.83	133.37	342936	342760.27	70.6
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2200: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343140	342504.6	458.31	343140	342511.6	464.4	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342994	342546.4	432.62	342994	342524.03	428.31	342763	342763	0	342763	342763	0
51	20	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
		2op	343079	342748.17	305.22	343079	342748.17	305.22	343067	342714.33	229.44	342763	342763	0
	50	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
		2op	343074	342683	321.63	343074	342683	321.63	343073	342567.6	373.35	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2201: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226223	225146.3	706.13	226756	225249.67	895.19	226217	224996.4	643.26	226451	225242.47	790.03
		2op	226435	225692.5	250.67	226609	225591.47	226.61	225517	225517	0	225517	225517	0
	50	rnd	226629	224966.53	876.61	226304	225159.87	611.93	226616	225261.5	622.12	227086	225248.2	898.4
51	20	rnd	226415	225765.93	282.23	226281	225709.87	276.35	225517	225517	0	225517	225517	0
		2op	226717	225011.93	778.71	226523	225191.5	604.25	226529	225150.3	700.12	226476	225048.53	676.18
	50	rnd	226364	225742.3	325.1	226698	226053.63	403.4	226370	225592.23	228.89	225517	225517	0
	20	rnd	226542	225019.7	902.9	227430	225435.2	834.72	226510	225319.83	825	226693	225005.33	850.79
		2op	226768	225740.7	388.93	226610	226198.87	228.9	226537	225579.07	284.59	225517	225517	0

Table A.2202: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226996	225609.1	777.28	226232	225428.2	624.03	226732	225243.57	791.22	226468	225211	738.34
		2op	225929	225689.5	168.95	225838	225579.17	111.17	225517	225517	0	225517	225517	0
	50	rnd	227306	225533.03	728.74	226685	225460.73	660.99	226798	225190.73	780.58	227269	225514.2	941.39
51	20	rnd	225955	225686.4	156.41	225860	225601.2	118.81	225517	225517	0	225517	225517	0
		2op	226731	225767.6	541.65	226801	225674.03	651.28	226681	225080.2	863.45	226622	225269.9	790.65
	50	rnd	225929	225634.53	143.46	226003	225694.13	157.11	225707	225527.37	40.48	225517	225517	0
	20	rnd	226929	225621.77	621.84	227096	225735.3	674.97	226665	225218.77	654.89	226606	225125.97	887.35
		2op	225946	225692.97	132.11	225935	225818.47	110.35	225770	225536.6	61.75	225517	225517	0

Table A.2203: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226793	225139.63	1001.81	226537	225078.2	852.16	227010	225286.23	869.92	226654	225032	824.1
		2op	226736	225879.97	351.65	226291	225677.63	264.55	225517	225517	0	225517	225517	0
	50	rnd	226635	225297.83	592.26	226531	225231.33	670.52	227570	225494.2	831.67	226312	224948.63	929.61
51	20	rnd	226844	225861.63	326.95	226879	225775.93	391.87	226233	225540.87	130.72	225517	225517	0
		2op	226733	225230.2	829.31	226558	225145.87	625.6	227135	225109.67	734.67	226609	224999.33	851.49
	50	rnd	226624	225759.37	343.29	226690	225967.23	363.35	226840	225565.07	241.63	225517	225517	0
	20	rnd	226840	225052.83	919.62	226399	225157.37	848.99	226733	225232.13	824.8	226723	225197.03	752.23
		2op	226314	225776.33	291.33	226599	226212.7	236.64	226512	225692.87	304.03	225517	225517	0

Table A.2204: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226800	225777.93	669.02	226883	225452.97	659.6	226884	225486.57	681.11	226456	225038.6	690.35
		2op	225944	225671.97	156.64	225893	225538.53	72.96	225517	225517	0	225517	225517	0
	50	rnd	226594	225473.73	679.68	226792	225332.27	867.95	226874	225221.33	865.92	226134	225097.23	671.09
51	20	rnd	225924	225652.53	145.45	225827	225566.07	87.28	225517	225517	0	225517	225517	0
		2op	226995	225674.43	706.2	226910	225675.73	728.05	227383	225329.27	649.72	226387	224877.07	969.09
	50	rnd	225938	225651.77	134.24	225928	225685.73	143.4	225517	225517	0	225517	225517	0
	20	rnd	226858	225619.2	733.42	227052	225898.43	545.47	226840	225303.27	830.97	226633	225154.33	873.97
		2op	225927	225640.23	131.56	226135	225853.5	122.14	225673	225524.43	29.96	225517	225517	0

Table A.2205: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226265	225139.13	907.65	226527	225163.07	818.68	226664	225134.2	705.25	226698	224937.13	928.79
		2op	226619	225921.17	361.33	226611	225848.3	399.77	225517	225517	0	225517	225517	0
	50	rnd	226916	225157.43	794.01	226946	225065.6	977.93	226991	225203.4	759.85	226308	225023.83	788.33
51	20	rnd	226297	225872.63	313.82	226824	225974.77	345.74	225517	225517	0	225517	225517	0
		2op	226835	225063.9	956.07	226337	225302	606.61	226484	225193.8	721.83	226480	225165.97	649.12
	50	rnd	226887	226052.8	345.08	226887	226081.2	348.63	226601	225643.23	286.56	225517	225517	0
	20	rnd	227229	225155.07	701.74	226317	224887.9	852.86	226318	224949.2	814.2	226531	225310.23	714.46
		2op	226424	225893.7	323.94	226404	225992.37	282.95	226181	225632.73	237.05	225517	225517	0

Table A.2206: *bx842596_4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226625	225703.5	606.47	227184	225442.7	716.28	226376	225252.13	637.37	226380	225086.17	767.64
		2op	225935	225644.33	137.74	225899	225609.63	122.15	225517	225517	0	225517	225517	0
	50	rnd	226986	225585.1	738.77	226106	225214.93	570.02	226885	225224.7	760.07	226501	225059.43	923.67
51	20	rnd	225929	225692.77	121.26	225929	225642.9	115.64	225517	225517	0	225517	225517	0
		2op	227242	225664.73	771.81	226745	225561.6	717.26	226836	225405.2	677.18	226772	225165.97	702.34
	50	rnd	226912	225917.4	338.49	226912	225905.13	331.17	225595	225520.5	14.91	225517	225517	0
	20	rnd	227216	225787.63	645.19	226692	225639.73	635.14	226708	225228.57	740.64	226709	225336.23	651.35
		2op	226628	225930.73	225.39	226609	225851.93	259.03	225726	225529.77	46.88	225517	225517	0

Table A.2207: *bx842596_4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440918	438629	1318.13	441469	438664.9	1332.21	442079	438477.23	1231.64	441312	438675.77	1234.51
		2op	438680	437898.77	407.68	438642	437497	284.6	437398	437398	0	437398	437398	0
		50	440961	438194.43	1246.16	440185	438430.83	1093.63	440555	438831.67	1175.19	440145	438339.8	1030.8
51	20	rnd	438887	437776.27	381.84	438278	437560.6	288.92	437398	437398	0	437398	437398	0
		2op	440731	438155.2	1211.97	440331	437968.07	1240.61	440297	438560.2	1280.21	440544	438110.77	1305.49
		50	438599	437765.77	375.07	438735	437604.47	363.02	437775	437410.57	68.83	437398	437398	0
	50	rnd	440419	438128	1275.49	441245	438556.2	1341.44	440917	438656.43	1118.17	441191	438825.5	1259.97
		2op	438507	437879.73	308.96	439035	437880.13	425.06	438297	437455.4	218.67	437398	437398	0

Table A.2208: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441176	439074.67	1245.8	440158	438712.2	1060.76	440394	438436.23	1329.59	440646	438355.07	1545.38
		2op	437809	437537.37	143.04	437537	437413.9	41.87	437398	437398	0	437398	437398	0
		50	442534	439621.03	1323.37	440344	438630.4	1012.1	440614	438473.77	1252.12	440874	438311.43	1338.47
51	20	rnd	437939	437544.03	154.26	437713	437431.3	84.63	437398	437398	0	437398	437398	0
		2op	441150	438630.17	1260.54	440626	438958.3	1010.62	440790	438355.53	1008.75	440361	438273.67	1262.72
		50	437794	437530.2	147.01	437810	437451.83	107.49	437403	437398.17	0.91	437398	437398	0
	50	rnd	440943	438896.5	1106.07	442189	439431.13	1176.81	440309	438753.63	1123.12	440197	438220.8	1002.45
		2op	437908	437602	141.05	437868	437574.4	147.92	437548	437403.7	27.52	437398	437398	0

Table A.2209: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441351	438668.23	1013.9	440984	438451.27	1320.04	440118	437911.5	1366.12	440021	438344.5	1234.66
		2op	438989	437979.8	477.85	438417	437454.47	219.59	437398	437398	0	437398	437398	0
		50	440850	438402.37	1208	441680	438671.1	1321.64	441063	438393.83	1376.42	440051	437912.63	1163.38
51	20	rnd	438962	438031.43	425.33	438971	437554.67	387.13	437398	437398	0	437398	437398	0
		2op	441685	438500.1	1376.79	440565	438375.43	1277.26	440377	438126.37	1154.28	440247	437981.77	1429.8
		50	438548	437765.37	382.13	439390	437702.33	490.22	438357	437429.97	175.09	437398	437398	0
	50	rnd	441622	438744.37	1111.44	440908	438393.37	1245.36	441200	438677.77	1105.43	439938	437871.27	1325.81
		2op	438576	437859.53	307.65	438527	437628.3	339.94	437825	437412.23	77.96	437398	437398	0

Table A.2210: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441181	439134.67	1079.74	440735	438621.47	1293.47	440863	438490.27	1225.79	440676	438381.8	1197.4
		2op	437852	437568.37	134.86	437570	437405.87	33.13	437398	437398	0	437398	437398	0
	50	rnd	441189	438896.6	1201.57	441734	438719.7	1192.22	440772	438543.47	1177.38	440469	438434.07	989.61
51	20	rnd	437826	437589.53	135.26	437471	437409.93	24.87	437398	437398	0	437398	437398	0
		2op	440894	439201.53	1121.24	441494	438866.8	1315.87	441451	438835.27	1385.4	440889	438600.53	1244.5
	50	rnd	437897	437524.87	153.48	437856	437449.37	106.29	437668	437407	49.3	437398	437398	0
	20	rnd	442159	439196.77	1062.91	441521	439415.87	1096.98	441119	438673.43	1249.69	440396	438418.2	1077.26
		2op	437864	437569.67	126.99	437835	437470.7	124.74	437428	437399	5.48	437398	437398	0

Table A.2211: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440597	438306.7	1310.83	440494	438604.3	967.29	441978	438503.93	1117.13	440304	437982.37	1291.64
		2op	438481	437936.3	316.67	438481	437751.67	340.4	437398	437398	0	437398	437398	0
	50	rnd	440755	438672.93	1195.54	441008	438401.87	1613.41	441365	438503.73	1436.87	441129	438344.37	1304.22
51	20	rnd	438750	438070.27	360.37	438533	437920.2	356.93	437398	437398	0	437398	437398	0
		2op	440678	438557.27	1140.44	440678	438681.77	1213.44	440925	438557.57	1344.76	440166	438301.8	929.55
	50	rnd	439240	437945.6	372.02	438664	437881.3	306.67	437398	437398	0	437398	437398	0
	20	rnd	440295	438491.47	1164.55	441003	438446.8	1426.4	441429	438650.3	1323.07	440472	438328.1	1180.34
		2op	438806	437967.03	330.47	438989	437950.27	369.01	438193	437440	165.61	437398	437398	0

Table A.2212: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441543	439175.13	1257.27	441406	439304.47	1272.41	441532	438532.9	1635.93	441010	438329.03	1551.12
		2op	437901	437609.33	131.18	437758	437508.27	116.61	437398	437398	0	437398	437398	0
	50	rnd	441295	438976.47	1144.66	441165	438937.73	1123.51	440169	438402.27	1285.38	440042	438236.13	1041.71
51	20	rnd	437859	437670.33	108.41	437789	437557	108.99	437398	437398	0	437398	437398	0
		2op	441037	439430.83	928.56	441021	439382.47	958.13	441367	438384.5	1546.44	440312	438623.57	1300.69
	50	rnd	439509	437786.27	463.66	439509	437752.87	467.61	437398	437398	0	437398	437398	0
	20	rnd	441676	439197.47	1244.99	441627	439120.1	1238.29	441712	439130.9	1121.55	440590	438385.07	1244.08
		2op	439692	437866.33	588.8	439642	437792.2	597.3	437521	437403.6	23.64	437398	437398	0

Table A.2213: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115876	114810.13	502.7	115553	114666.33	450.23	116248	114811.33	564.26	115420	114584.37	517.36
		2op	116327	115525.47	221.84	115802	115485.33	151.71	115514	115514	0	115514	115514	0
	50	rnd	115431	114772.17	426.02	115621	114661.17	423.71	115768	114871.47	532.51	115601	114849.4	560.44
51	20	rnd	115767	115456.6	186.34	116023	115537.6	200.88	115547	115501.8	72.39	115514	115514	0
		2op	115953	114702.17	648.28	115653	114806.33	595.07	115619	114648.23	488.37	115930	114819.53	502.83
	50	rnd	115633	115437.33	123.2	115893	115570.1	177.56	115633	115411.53	142.09	115514	115514	0
	20	rnd	115690	114774.6	475.75	115402	114729.97	437.25	115654	114830.5	497.95	115717	114705.07	560.4
		2op	115803	115507.73	142.89	116424	115750	237.71	115858	115508.63	147.62	115514	115514	0

Table A.2214: $j02459_7$: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115759	114898.37	432.88	115993	114837	498.14	115744	114827.03	664.09	115808	114876.57	555.67
		2op	115872	115568.97	69.69	115561	115520.8	13.34	115514	115514	0	115514	115514	0
	50	rnd	116082	115123.2	524.4	115883	115302.53	455.99	116177	114916.83	607.58	115754	114670.17	543.26
51	20	rnd	115629	115560.6	39.02	115723	115560.87	60.56	115514	115514	0	115514	115514	0
		2op	115893	115019.97	504.71	116152	115091.47	420.23	115825	114932.17	582.72	115753	114843.43	563.73
	50	rnd	116009	115577.77	103.94	115882	115644.77	75.45	115582	115519.17	16.7	115514	115514	0
	20	rnd	115997	115017.5	549.84	116185	115235.3	489.49	115735	114895.93	470.18	115490	114664.33	445.38
		2op	115685	115578.53	48.59	115812	115726.53	47.1	115588	115525.2	21.41	115514	115514	0

Table A.2215: $j02459_7$: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115650	114856.67	517.37	115592	114918.4	501.3	115774	114999.83	392.1	115283	114585.63	557.15
		2op	115647	115496.53	132.75	115690	115491.97	110.25	115514	115510.53	18.99	115514	115514	0
	50	rnd	115678	114754.07	457.41	115604	114849.77	502.5	115742	114600.03	499.21	115724	114705.97	525.73
51	20	rnd	116039	115483.67	209.74	116035	115553.33	242.13	115670	115509.27	79.91	115514	115514	0
		2op	115911	114854.23	616.39	115789	114770.7	541.7	115503	114763.7	509.22	116175	114743.03	640.99
	50	rnd	115933	115472.4	181.3	116399	115691.43	283.42	115654	115493.9	105.78	115514	115514	0
	20	rnd	115862	114884.67	534.74	115233	114636.3	490.59	115908	114864.9	572.34	115851	114823.7	513.33
		2op	116025	115445.3	202.6	116438	115787.1	169.6	116023	115499.03	162.76	115514	115514	0

Table A.2216: $j02459_7$: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115876	115151.33	475.34	115658	114834.7	524.08	115976	114843.4	494.71	115737	114668.2	426.4
		2op	115654	115557.9	41.36	115565	115519.5	12.7	115514	115514	0	115514	115514	0
	50	rnd	115930	115248.17	427.25	115705	114995.77	422.36	115983	114698.7	565.81	115778	114784.53	549.5
51	20	rnd	115688	115570.4	48.76	115646	115535.6	34.55	115514	115514	0	115514	115514	0
		2op	116034	115084.33	463.09	115898	115137.57	550	115956	115050.97	596.66	115713	114743.93	547.53
	50	rnd	115650	115566.53	44.09	115731	115638.7	53.65	115551	115515.97	7.74	115514	115514	0
	2op	rnd	116178	115065.47	528.63	116544	115353.2	545.96	116026	115063.3	424.42	115847	114731.13	466.18
		2op	115971	115569.63	84.82	115825	115727.47	51.17	115591	115520.7	16.59	115514	115514	0

Table A.2217: *j02459_7*: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115900	114874.4	361.1	116164	114883.77	561.08	115381	114658.13	463.67	115460	114632.77	620.94
		2op	116308	115500.4	211.57	115770	115448.47	146.03	115514	115514	0	115514	115514	0
	50	rnd	115594	114785.73	419.62	115638	114585.3	579.84	115831	114763.43	480.57	115837	114792.47	608.15
51	20	rnd	115698	115469.03	178.1	116004	115483.5	192.33	115514	115510.93	11.72	115514	115514	0
		2op	116113	114961.07	501.78	115860	114984.4	510.54	115365	114724.63	473.9	115856	114623.7	539.41
	50	rnd	115855	115523.9	187.29	116333	115537.3	241.98	116077	115469.37	180.16	115514	115514	0
	2op	rnd	116050	114910.47	597.04	116036	115024.8	540.22	115592	114641.5	534.9	115604	114842.9	548.75
		2op	116052	115567.37	202.25	115858	115524.77	192.65	115645	115487.77	81.48	115514	115514	0

Table A.2218: *j02459_7*: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115984	115011.3	505.8	116164	115154.4	507.56	115682	114727.33	433.13	115682	114816.4	533.12
		2op	116330	115608.03	200.47	116026	115575.47	125.58	115514	115514	0	115514	115514	0
	50	rnd	115567	114902.77	385.56	115759	114984.87	492.47	115645	114961.23	392.1	115617	114781.03	453.88
51	20	rnd	115685	115569.7	83.23	115685	115550.8	93.89	115514	115514	0	115514	115514	0
		2op	116024	115197	411.59	116020	115157.07	391.39	115990	115036.43	495.04	115913	114669.37	709.08
	50	rnd	116182	115522.17	245.08	116182	115514.37	248	115606	115517.07	16.8	115514	115514	0
	2op	rnd	116141	115168.03	397.77	116097	115222.47	519.38	116207	115159.93	588.85	116174	114855.43	727.06
		2op	116455	115843.53	311.12	116454	115825.77	316.74	115558	115516.63	8.72	115514	115514	0

Table A.2219: *j02459_7*: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38492	38181.7	174.35	38482	38151.33	220.5	38581	38256.53	240.69	38531	38211.8	225.03
		2op	38420	38356.53	71.77	38437	38410.57	8.83	38557	38305.23	109.24	38224	38224	0
	50	rnd	38559	38177.03	217.62	38527	38146.5	249.66	38580	38145.57	279.67	38588	38197.73	176.85
51	20	rnd	38409	38383.83	42.62	38442	38424.57	14.6	38524	38401.57	39.38	38224	38224	0
		2op	38566	38264.03	204.69	38579	38243.8	214.33	38577	38187.07	245.88	38580	38151.07	275.96
	50	rnd	38414	38378.97	55.09	38442	38424.77	14.35	38418	38403.77	10.63	38409	38259.93	73.25
	20	rnd	38681	38242.53	203.26	38656	38295.63	210.6	38677	38202.77	223.89	38542	38224.7	201.97
		2op	38434	38382.63	42.41	38442	38430.97	13.6	38529	38411.7	23.79	38519	38324.87	92.83

Table A.2220: $m15421_5$: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38553	38331.27	142.3	38680	38326.37	137.39	38593	38214	160.2	38526	38147.33	234.82
		2op	38442	38360.53	72.35	38434	38406.63	10.01	38366	38255.5	48.74	38224	38224	0
	50	rnd	38585	38327	156.95	38666	38383.6	172.13	38548	38279.4	159.01	38534	38166.03	215.66
51	20	rnd	38420	38383.33	43.96	38441	38422	13.82	38397	38338.3	39.67	38224	38224	0
		2op	38516	38236.9	187.37	38648	38352.93	147.13	38611	38334.97	186.05	38586	38252.83	226.28
	50	rnd	38437	38385.53	58.31	38469	38430.33	15.09	38417	38386.53	19.54	38304	38232.13	21.18
	20	rnd	38576	38310.63	184.35	38634	38382.63	157.91	38656	38371.73	175.06	38638	38235.3	196.05
		2op	38442	38373.13	60.85	38524	38438.4	18.88	38412	38397.87	9.49	38364	38264.2	42.86

Table A.2221: $m15421_5$: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38658	38232.1	192.45	38647	38221.33	209.93	38567	38128.33	284.34	38686	38216.17	224.51
		2op	38413	38366	68.07	38441	38412.87	13.73	38441	38271.2	80.57	38224	38224	0
	50	rnd	38485	38125.9	236.6	38649	38198.93	234.3	38563	38228.93	232.99	38619	38200.03	248.5
51	20	rnd	38413	38368.3	65.65	38442	38420.2	13.72	38524	38397.07	37.54	38224	38224	0
		2op	38527	38210.5	237.24	38606	38244.83	218.17	38567	38175.63	222.14	38486	38199.9	182.12
	50	rnd	38436	38374.4	61.25	38442	38420.53	13.46	38432	38405.97	13.59	38411	38253.03	66.24
	20	rnd	38657	38218.8	236.38	38601	38249.43	187.41	38539	38183	231.85	38633	38182	226.91
		2op	38414	38369.6	61.25	38442	38429.5	11.93	38437	38412.03	14.01	38530	38312.9	101.16

Table A.2222: $m15421_5$: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38659	38286.97	190.6	38572	38355.5	165.67	38664	38216.73	212.35	38537	38174.77	228.22
		2op	38409	38357.83	70.48	38434	38401.6	15.23	38366	38250.23	49.11	38224	38224	0
	50	rnd	38537	38214.13	174.1	38610	38382.73	162.08	38578	38283.63	184.95	38518	38177.9	242.61
51	20	rnd	38409	38361.37	69.7	38445	38419.1	12.94	38397	38327.53	42.22	38224	38224	0
		2op	38612	38283.17	176.04	38585	38362.33	141.34	38566	38260.33	199.86	38546	38122.67	249.77
	50	rnd	38437	38383.87	58.54	38445	38431.97	12	38422	38384.73	15.7	38309	38233	22.83
	20	rnd	38572	38289.37	153.39	38570	38344.27	182.82	38590	38308.03	172.7	38492	38219.17	197.79
		2op	38445	38376.87	65.66	38504	38436.3	18.33	38431	38401.8	16.99	38384	38255.23	45.07

Table A.2223: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38650	38281.53	204.31	38527	38229.67	221.88	38634	38120	245.46	38612	38185.97	238.01
		2op	38422	38404.9	7.94	38422	38404.9	8.68	38436	38296.5	90.8	38224	38224	0
	50	rnd	38664	38319.1	161.52	38550	38235.47	206.67	38535	38181.13	200.91	38571	38214.37	238.86
51	20	rnd	38430	38406.9	7.84	38423	38404.7	8.54	38427	38333.67	85.76	38224	38224	0
		2op	38569	38319.1	187.91	38579	38351.7	150.08	38636	38234.5	247.45	38553	38152.83	229.71
	50	rnd	38439	38417.97	11.97	38442	38434.8	7.15	38432	38393.73	21.38	38224	38224	0
	20	rnd	38528	38340.8	160.43	38651	38421.6	122.54	38566	38210.63	210.56	38687	38171.97	260.43
		2op	38442	38425.7	13.06	38442	38426.17	13.68	38413	38396.03	15.18	38432	38247.33	61.02

Table A.2224: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38685	38349.97	187.96	38605	38339.37	164.25	38663	38214.43	244.67	38655	38185.2	221.33
		2op	38458	38414.73	15.55	38437	38411.93	14.63	38353	38251.37	38.16	38224	38224	0
	50	rnd	38629	38344.27	156.75	38616	38366.93	159.43	38626	38203.33	213.14	38626	38210.33	195.38
51	20	rnd	38442	38403.4	41.15	38442	38400.03	37.22	38396	38287.67	62.1	38224	38224	0
		2op	38586	38295.87	180.62	38581	38296	162.22	38652	38266.17	190.33	38573	38214.4	188.94
	50	rnd	38442	38421.43	14.38	38442	38438.8	3.47	38437	38384.27	33.28	38224	38224	0
	20	rnd	38566	38316.37	181.34	38639	38301.43	194.81	38515	38206.53	214.45	38491	38111.67	233.78
		2op	38442	38429.83	12.35	38442	38431.03	12.35	38418	38386.73	26.62	38292	38230.8	18.61

Table A.2225: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47891	47585.57	215.2	47923	47473.93	264.22	47899	47562.3	283.96	47846	47431.87	287.17
		2op	47758	47482.57	160.26	47758	47738.97	51.81	47349	47349	0	47349	47349	0
	50	rnd	47824	47493.63	260.9	47949	47428.83	371.53	47851	47514.47	212.22	47939	47515.83	257.85
51	20	rnd	47758	47470.63	160.21	47758	47755.9	4.84	47755	47406.6	131.8	47349	47349	0
		2op	47878	47477.43	286.35	47957	47561.37	224.48	47820	47494.27	309.7	47939	47512.67	305.14
	50	rnd	47758	47515.2	157.39	47758	47756.57	3.37	47758	47554.53	193.51	47349	47349	0
	20	rnd	47848	47447.17	270.91	47919	47470.3	326.63	47838	47521.87	216.79	47833	47475.07	251.89
		2op	47758	47456.93	122.08	47758	47756.8	1.49	47758	47714.73	101.66	47349	47349	0

Table A.2226: *m15421_6*: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47944	47605.43	234.19	47956	47597.4	194.94	47961	47547.27	337.94	47899	47546.2	261.82
		2op	47563	47419.6	66.81	47574	47542.83	39.13	47426	47352.83	15.46	47349	47349	0
	50	rnd	48034	47643.73	264.59	48048	47604.23	235.57	47917	47487.73	298.24	47862	47600.7	190.43
51	20	rnd	47731	47433.13	103.13	47579	47570.37	7.65	47468	47361.27	28.21	47349	47349	0
		2op	47969	47587.33	226.75	47917	47617.4	263.55	47930	47607.57	205.3	48023	47503.47	271.02
	50	rnd	47829	47541.5	165.84	47830	47641	94.33	47561	47455.73	82.16	47349	47349	0
	20	rnd	47978	47620.1	180.92	47978	47668.5	192.18	48044	47585.93	227.63	47849	47528.27	252.6
		2op	47758	47438	137.19	47830	47659.9	97.41	47561	47526.93	47.53	47440	47352.03	16.61

Table A.2227: *m15421_6*: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47919	47514.43	268.33	47982	47536.1	269.66	47864	47477.83	251.91	47925	47482.5	256.88
		2op	47758	47506.07	161.06	47758	47741	53.47	47349	47349	0	47349	47349	0
	50	rnd	47790	47458.17	298.38	47923	47503.43	239.68	47914	47470.27	340.86	47916	47568.33	236.33
51	20	rnd	47758	47469.27	165.87	47758	47754.03	6.39	47758	47391.37	122.14	47349	47349	0
		2op	48012	47570.97	271.81	47916	47504.57	282.37	47909	47563.83	270.74	47839	47510.6	228.83
	50	rnd	47758	47460.7	135.96	47758	47756.87	3.06	47758	47509.03	177.54	47349	47349	0
	20	rnd	47848	47488.23	242.11	47837	47448.9	329.57	47986	47562.3	298.49	47916	47524.33	246.58
		2op	47758	47527.9	157.08	47758	47757.2	1.35	47758	47713.13	97.34	47738	47373.37	92.94

Table A.2228: *m15421_6*: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48034	47669.53	185.92	48051	47681.57	238.43	47862	47580.93	253.13	47943	47560.4	313.84
		2op	47563	47414.7	72.56	47575	47538.17	37.51	47423	47352.63	14.74	47349	47349	0
	50	rnd	47896	47569.73	257.15	48045	47705.13	191.18	48002	47581.23	262.73	48027	47545.97	262.63
51	20	rnd	47563	47417.8	78.32	47578	47565.7	8.51	47440	47360.5	23.23	47349	47349	0
		2op	47933	47562.97	247.98	48049	47640.5	195.82	47923	47642	242.19	47866	47553.37	174.66
	50	rnd	47755	47455.97	127.43	47758	47606.8	68.24	47559	47450.17	77.06	47349	47349	0
	20	rnd	48043	47668.67	229.3	47897	47589.07	248.5	47948	47600.27	227.69	47984	47510.3	275.67
		2op	47758	47440.07	118.34	47758	47628.23	87.24	47577	47527.1	43.68	47349	47349	0

Table A.2229: *m15421_6*: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48036	47518.47	322.75	47950	47521.73	267.95	47906	47566.23	218.64	47910	47539.4	262.32
		2op	47758	47574.13	156.12	47758	47588.57	160.97	47758	47375.9	102.38	47349	47349	0
	50	rnd	47964	47613.3	231.52	47942	47598.03	256.24	47944	47451.63	342.38	47943	47457.27	280.78
51	20	rnd	47758	47666.57	134.36	47758	47674	132.32	47747	47362.27	72.66	47349	47349	0
		2op	47936	47651.6	215.03	47897	47597.8	229.59	47914	47572.27	254.78	47848	47578.77	181.18
	50	rnd	47758	47711.23	75.39	47758	47749.8	32.16	47758	47549.97	185.85	47349	47349	0
	20	rnd	48036	47647.83	187.2	47886	47593.33	234.65	47973	47528.67	299.04	47898	47502.57	241.79
		2op	47758	47693.6	87.44	47758	47746.1	35.05	47758	47452.6	140.76	47349	47349	0

Table A.2230: *m15421_6*: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47961	47640.4	195.56	47961	47613.97	214.72	47967	47606.47	197.48	48027	47525.53	293.73
		2op	47814	47629	151.54	47814	47611.8	151.64	47371	47350.23	4.78	47349	47349	0
	50	rnd	48033	47672.6	218.71	48031	47612.27	222.71	47933	47573.5	222.68	47836	47558.2	261.46
51	20	rnd	47758	47603.9	150.6	47758	47603.33	150.37	47360	47349.57	2.25	47349	47349	0
		2op	47917	47522.37	279.28	48052	47669.5	211.02	47952	47539.47	358.86	48043	47548.93	314.69
	50	rnd	47758	47728.4	71.47	47758	47755.9	5.16	47758	47427.73	137.12	47349	47349	0
	20	rnd	47875	47535.4	315.92	47978	47565.6	215.86	47946	47615.83	237.02	47862	47546.23	215.16
		2op	47758	47742.77	61.71	47758	47733.8	77.71	47758	47505.5	179.31	47349	47349	0

Table A.2231: *m15421_6*: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54750	54213.5	266.11	55042	54361.5	406.41	54729	54358.1	271.44	54880	54300.37	341.91
		2op	54753	54722.77	20.06	54959	54733.4	47.51	54705	54705	0	54705	54705	0
	50	rnd	54874	54326.67	370.21	54960	54266.5	418.26	54884	54329	412.07	54827	54397.83	274.96
51	20	rnd	54745	54718.43	18.75	54754	54745.1	4.03	54745	54706.33	7.3	54705	54705	0
		2op	54907	54334.17	328.31	54803	54332.5	319.7	54815	54274.07	283.99	54895	54293.73	318.65
	50	rnd	54745	54719.57	19.25	54766	54747.2	7.7	54745	54713.93	14.74	54705	54705	0
	20	rnd	54922	54462.1	252.92	54742	54345.9	282.64	54739	54270.33	356.22	54716	54283.9	274.34
		2op	54753	54733.53	18.11	54754	54751.03	4.82	54959	54737.9	46.09	54705	54705	0

Table A.2232: $m15421_7$: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54921	54460.27	306.86	55078	54428.97	283.23	54876	54346.93	368.9	54921	54336.9	344.49
		2op	54745	54723.73	19.69	54745	54726	16.31	54705	54705	0	54705	54705	0
	50	rnd	54947	54404.37	308.7	55165	54618.3	278.31	54985	54388.1	245.37	55100	54313.33	364.19
51	20	rnd	54754	54726.5	20.14	54769	54744.9	6.92	54709	54705.13	0.73	54705	54705	0
		2op	55025	54351.03	426.51	55169	54529.67	312.58	54752	54353.17	345.93	54955	54322.97	270.66
	50	rnd	54745	54728.9	19.45	54754	54746.77	4.55	54744	54714.9	14.24	54708	54705.1	0.55
	20	rnd	55022	54397.67	309.97	55131	54662.2	248.17	54966	54477.77	352.47	54951	54353.43	336.17
		2op	54745	54726.43	19.58	54754	54751.43	4.8	54745	54718.9	15.35	54705	54705	0

Table A.2233: $m15421_7$: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54814	54322.9	320.56	54866	54364.2	293.07	54827	54341.97	352.12	54872	54356.33	359.93
		2op	54745	54719.9	19.71	54747	54724.53	18.32	54705	54705	0	54705	54705	0
	50	rnd	54802	54304.4	377.65	55008	54384.9	369.44	54757	54177.23	390.15	54788	54203.73	333.19
51	20	rnd	54745	54720.47	18.78	54755	54744.97	5.82	54745	54706.5	7.33	54705	54705	0
		2op	54832	54331.9	280.84	54783	54281.07	349.98	54615	54243.57	259.54	54853	54379.4	243.98
	50	rnd	54745	54721.6	20.34	54756	54746.9	6.19	54747	54720.03	20.27	54705	54705	0
	20	rnd	54847	54386.93	328.7	54939	54407.53	327.67	54776	54307.6	328.01	54805	54323.33	325.92
		2op	54745	54723.67	19.76	54762	54750.33	5.03	54959	54737.6	45.91	54705	54705	0

Table A.2234: $m15421_7$: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55146	54505.37	317.31	55081	54464.73	382.43	55084	54432.3	355.28	55018	54299.83	353.09
		2op	54745	54724.67	19.19	54753	54718.77	15.07	54705	54705	0	54705	54705	0
	50	rnd	54846	54394.13	358.41	54933	54484.73	294.88	54902	54413.1	337.87	54912	54335.63	378.13
51	20	rnd	54753	54728.53	19.54	54754	54740.33	8.61	54705	54705	0	54705	54705	0
		2op	55168	54524.37	292.21	54896	54500.13	260.23	54927	54368.83	330.04	54801	54293	354.18
	50	rnd	54754	54733	17.74	54754	54746.57	8.38	54744	54710.77	11.57	54705	54705	0
	20	rnd	54951	54487.07	284.17	55035	54662.23	305.49	55046	54497	265.99	54980	54438.33	350.38
		2op	54745	54731.8	18.5	54754	54751.3	3.99	54745	54717.97	15.47	54705	54705	0

Table A.2235: $m15421.7$: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54959	54325.9	435.66	54869	54437	309.01	54939	54354.97	361.88	54834	54348.53	281.78
		2op	54754	54737.13	16.53	54959	54741.37	44.62	54705	54705	0	54705	54705	0
	50	rnd	54903	54448.63	234.38	55130	54491.4	363.72	54832	54270.77	300.29	54945	54355.3	334.98
51	20	rnd	54754	54741.4	12.57	54754	54738.43	14.24	54720	54705.5	2.74	54705	54705	0
		2op	54791	54441.53	280.12	54957	54461.17	271.78	54772	54347.7	304.24	55031	54326.07	372.7
	50	rnd	54754	54745.03	8.13	54755	54746.63	3.52	54747	54713.87	16.32	54705	54705	0
	20	rnd	54938	54508.9	259.68	54970	54530.87	300.09	54859	54342.57	497.67	54856	54220.83	395.98
		2op	54769	54748.63	5.75	54754	54745.87	5.98	54746	54708.8	13.04	54705	54705	0

Table A.2236: $m15421.7$: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55048	54512.73	341.92	54828	54446.5	261.61	54921	54376.47	311.4	54842	54340.5	374.99
		2op	54754	54731.87	19.17	54754	54725.97	20.33	54705	54705	0	54705	54705	0
	50	rnd	55135	54515.13	326.56	54909	54376.97	323.86	54866	54283.27	383.95	54899	54383.23	348.37
51	20	rnd	54754	54741.23	13.22	54754	54737.97	14.37	54712	54705.23	1.28	54705	54705	0
		2op	54978	54493.3	367	55020	54451.53	301.46	55037	54480.97	331.63	54942	54183.1	423.38
	50	rnd	54754	54746.27	8.78	54769	54748.97	5.73	54736	54708.37	8.26	54705	54705	0
	20	rnd	55005	54604.03	282.73	54957	54435.23	415.34	54834	54372.97	311.64	54913	54309.4	397.13
		2op	54754	54748.33	4.87	54754	54744.6	11.67	54754	54709.07	10.81	54705	54705	0

Table A.2237: $m15421.7$: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11340	11192.97	128.17	11478	11276.63	120.08	11478	11209.43	203.46	11478	11178.23	187.02
		2op	11109	11034.5	39.58	11305	11195.73	77.28	11109	11109	0	11017	11003.93	3.55
	50	rnd	11366	11159.23	146.32	11478	11242.17	140.54	11478	11207.13	179.47	11411	11179.47	161.68
51	20	rnd	11109	11040.5	42.52	11373	11249.33	59.91	11285	11139.03	58.87	11109	11053.13	46.29
		2op	11411	11187.8	159.27	11478	11297.23	114.85	11478	11268.73	143.47	11478	11245.73	129.43
	50	rnd	11109	11027.4	31.52	11256	11116.5	29.95	11305	11179.97	82.93	11109	11109	0
	20	rnd	11411	11153.43	144.01	11478	11305.87	113.35	11478	11233.47	137.16	11478	11259.1	121.39
		2op	11109	11070.67	45.15	11373	11166.2	81.3	11324	11250.7	64.7	11109	11109	0

Table A.2238: $x60189_4$: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11394	11228.13	126.42	11478	11248	126.85	11413	11212.17	122.12	11478	11241.6	105.47
		2op	11109	11031.8	38.41	11373	11226.43	85.64	11109	11109	0	11009	11003.4	1.52
	50	rnd	11478	11232.4	178.64	11478	11275.43	105.12	11478	11287.63	135.73	11478	11226.97	142.37
51	20	rnd	11305	11060.37	78.34	11373	11259.07	66.24	11373	11130.9	66.09	11109	11039.27	38.8
		2op	11478	11170.13	163.41	11478	11242.97	151.91	11478	11234.03	125.44	11478	11195.53	173.57
	50	rnd	11109	11028.6	32.99	11285	11119.77	41.15	11305	11191.43	76.41	11109	11105.93	16.8
	20	rnd	11478	11191.1	146.61	11478	11305.87	115.65	11478	11283.77	144.83	11478	11231.43	163.29
		2op	11109	11072.8	44.42	11373	11213.83	85.29	11373	11277.3	56.23	11109	11109	0

Table A.2239: $x60189_4$: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11198.33	156.5	11478	11271.47	96.81	11478	11200.13	175.99	11478	11154.13	175.89
		2op	11127	11025.87	33.11	11305	11194.73	83.36	11305	11115.53	35.78	11017	11003.47	2.56
	50	rnd	11413	11152.17	204.65	11478	11287.23	122.1	11411	11188.97	146.62	11411	11211.2	117.81
51	20	rnd	11109	11030.5	37.64	11373	11219.2	77.22	11394	11134.3	69.28	11109	11026.73	36.79
		2op	11411	11179.57	161.29	11413	11251.9	107.88	11478	11325.83	111.8	11478	11251.07	132.48
	50	rnd	11109	11045.67	42.04	11196	11111.9	15.88	11305	11182.87	88.12	11109	11109	0
	20	rnd	11413	11228.87	118.57	11478	11263.17	121.32	11478	11309.67	130.8	11478	11273.8	146.9
		2op	11109	11053.27	46.68	11373	11196.13	84.78	11394	11277.57	66.77	11259	11114	27.39

Table A.2240: $x60189_4$: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11221.57	176.35	11478	11298.23	125.15	11478	11253.8	146.24	11478	11188.47	153.81
		2op	11285	11031.27	61.53	11394	11256.53	76.64	11151	11110.4	7.67	11015	11003.4	2.19
	50	rnd	11478	11201.1	122.65	11478	11274.97	142.46	11413	11247.37	105.41	11478	11256.97	135.83
		2op	11213	11030	48.71	11394	11279.17	57.77	11305	11139.37	69.52	11109	11021.7	31.62
51	20	rnd	11478	11186.87	133.65	11478	11202.17	144.93	11411	11235.27	93.71	11478	11190.47	176.91
		2op	11109	11040.53	41.04	11305	11138.7	67.96	11305	11155.7	79.66	11109	11108.6	1.85
	50	rnd	11478	11186.97	178.68	11478	11298.9	142.15	11478	11298.63	116.22	11478	11281.63	163.22
		2op	11305	11063.07	66.02	11373	11210.83	101.36	11373	11273.33	57.31	11109	11108.27	4.02

Table A.2241: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11413	11215.53	160.43	11413	11277.67	132.58	11413	11184.63	171.28	11394	11133.73	171.11
		2op	11109	11078.33	44.11	11394	11226.67	71.47	11095	11014.63	24.07	11003	11003	0
	50	rnd	11394	11243.7	105.9	11478	11270.83	137.14	11478	11191.47	125.63	11394	11146.7	157.54
		2op	11256	11099.27	46.72	11373	11222.67	89.47	11109	11037.2	42.65	11095	11006.07	16.8
51	20	rnd	11413	11243	91.18	11478	11280.8	101.01	11478	11205.37	196.4	11411	11120.47	188.23
		2op	11109	11093.67	34.87	11256	11118.5	32.1	11109	11071.87	43.84	11017	11004.4	4.27
	50	rnd	11413	11228.17	120.1	11478	11293.77	111.69	11478	11255.03	96.51	11478	11161.27	166.01
		2op	11109	11099.8	28.07	11305	11180.2	85.93	11109	11087.93	38.07	11109	11008.87	19.64

Table A.2242: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11222.77	144.12	11478	11279.27	136.65	11478	11194.13	183.21	11394	11182.2	159.84
		2op	11109	11078	44.59	11305	11273.3	59.4	11109	11014.53	27.23	11003	11003	0
	50	rnd	11478	11182.6	169.6	11478	11282.43	111.08	11478	11215	135.37	11478	11169.17	167.18
		2op	11256	11095.37	46.59	11394	11242.77	89.21	11109	11033.53	41.27	11095	11006.07	16.8
51	20	rnd	11478	11214.3	139.37	11478	11274.5	144.96	11478	11249.27	119.78	11478	11210.37	148.65
		2op	11109	11092.07	35.24	11305	11122.07	49.73	11109	11073.03	41.29	11015	11004	3.18
	50	rnd	11411	11222.27	128.65	11478	11274.67	155.94	11478	11218.43	156.62	11413	11178.07	166
		2op	11257	11101.67	43.21	11305	11149.17	74.89	11305	11095.53	54.18	11017	11005.2	4.77

Table A.2243: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13842.03	162.2	14157	13974.83	143.12	14133	13809.47	174.57	14157	13780.1	195.92
		2op	13967	13802.3	66.45	14064	13987.27	42.8	13995	13940.8	57.54	13721	13721	0
	50	rnd	14161	13868.93	167.66	14137	13954.87	126.21	14139	13913.3	115.56	14079	13827.23	186.88
51	20	2op	13938	13816.77	55.37	14157	14029.47	60.19	13995	13965.8	25.88	13922	13737.77	46.44
		rnd	14161	13897.1	135.86	14161	13887.17	183.58	14161	13946.17	132.53	14137	13860.23	134.62
	50	2op	13938	13828.87	62.32	14157	14003.87	41.56	14059	13990.8	39.05	13995	13800.23	91.94
	20	rnd	14161	13901.43	154.38	14161	13949.2	117.88	14161	14003.17	125.08	14121	13814.6	151.42
		2op	13899	13811.2	55.78	14059	14006.67	37.65	14157	14024.37	52.71	13968	13826.53	85.32

Table A.2244: $x60189_5$: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14119	13843.9	147.44	14161	13955.77	115.05	14088	13907.83	117.46	14133	13859.07	155.83
		2op	14029	13851.7	115.73	14157	14016.3	55.84	13995	13851.93	62.03	13721	13721	0
	50	rnd	14157	13827.23	206.66	14137	13917.23	126.94	14161	13929.43	147.68	14150	13836	191.65
51	20	2op	14133	13877.5	119.35	14157	14023.73	54.03	14038	13904.67	48.83	13749	13723.8	8.23
		rnd	14155	13840.5	185.98	14137	13877.63	134.89	14139	13916.77	123.93	14131	13893.8	149.57
	50	2op	14038	13862.27	91.02	14157	13997.37	66.83	14157	13991.63	44.77	13867	13750.47	47.86
	20	rnd	14071	13810.2	193.72	14161	13942.97	133.13	14139	13949.77	130.1	14161	13851.03	166.64
		2op	13995	13895.33	82.24	14157	14017.9	68.9	14157	14006.67	47.49	13869	13765	56.53

Table A.2245: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13887.53	160.68	14161	13975.9	151.37	14133	13849.03	153.54	14094	13796.4	135.01
		2op	13938	13814.27	60.22	14064	13986.57	49.55	13995	13902.6	84.55	13721	13721	0
	50	rnd	14137	13858.9	167.37	14161	13973.4	106.97	14139	13856.9	175.29	14066	13800.07	148.12
51	20	2op	13948	13813.33	59.59	14157	14008.87	41.28	13995	13965.97	25.88	13827	13724.53	19.35
		rnd	14161	13886.23	165.42	14161	13935.03	160.67	14157	13933.43	131.8	14121	13824.7	170.48
	50	2op	13932	13797.6	53.65	14157	14003.87	43.02	14038	13983.4	35.96	13968	13796.97	79.61
	20	rnd	14161	13914.73	145.18	14161	13931.1	136.67	14161	13995.5	106.55	14157	13877.77	165.3
		2op	13878	13809.93	43.87	14157	14008.07	59.01	14157	14009.83	55.74	14038	13807.73	85.06

Table A.2246: $x60189_5$: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14133	13826	182.08	14139	13952.63	143.41	14154	13919.47	145.49	14105	13755.1	185.85
		2op	14038	13878.4	111.21	14157	14024.57	59.46	14036	13833.87	78.58	13721	13721	0
	50	rnd	14128	13860.77	126.98	14157	13961.9	153.95	14157	13928	134.72	14137	13851.77	186.5
51	20	2op	14038	13889.6	115.45	14157	14049.07	65.07	14038	13907.23	55.68	13747	13721.87	4.75
		rnd	14135	13853.53	152.54	14137	13875.1	123.05	14161	13902.73	151.59	14155	13930.73	180.32
	50	2op	14038	13853.33	98.26	14157	14009.7	54.25	14157	14007.83	47.01	13938	13764.37	66.21
	20	rnd	14139	13865.6	174.76	14161	13962.33	130.7	14161	13977.7	138.77	14161	13800.07	188.66
		2op	14038	13884.07	108.04	14157	14008.6	58.15	14157	14032.67	64.23	14038	13756.7	67.95

Table A.2247: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13932.2	141.58	14161	13962.1	114.49	14105	13863	161.26	14099	13778.4	189.13
		2op	13938	13843.1	53.28	14157	13951.43	86.11	13867	13735.93	39.48	13721	13721	0
	50	rnd	14139	13972.8	139.03	14161	13989.8	102.67	14127	13789.67	191.29	14123	13835.73	146.61
51	20	2op	13932	13842.43	26.34	14157	13988.3	71.67	13840	13742.6	41.2	13721	13721	0
		rnd	14161	13932.43	165.21	14161	13941.03	132.46	14133	13882.37	163.71	14071	13867.87	145.04
	50	2op	13938	13845.47	51.16	14038	13938.93	56.31	14038	13803.83	83.09	13721	13721	0
	20	rnd	14139	13966.73	140.28	14066	13942.17	89.52	14139	13905.63	143.74	14133	13772.77	159.57
		2op	13968	13858.27	40.81	14038	13911.7	55.98	13995	13800.6	73.43	13721	13721	0

Table A.2248: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14155	13852.83	179.52	14139	13957	99.84	14127	13794.37	172.54	14139	13842.1	171.19
		2op	14038	13928.43	70.9	14157	14005.87	46.96	13995	13737.83	61.95	13721	13721	0
	50	rnd	14161	13844.83	193.62	14157	13944.57	149.7	14038	13785.23	150.21	14064	13800.23	157.74
51	20	2op	14038	13972.63	72.19	14071	13994.6	27.43	14004	13757.6	89.28	13721	13721	0
		rnd	14135	13876.47	136.74	14161	13897.07	130.59	14142	13886.3	171.15	14127	13816.8	178.34
	50	2op	14038	13927.9	79.28	13995	13978.47	13.79	14038	13825.4	99.24	13721	13721	0
	20	rnd	14071	13863.83	120	14133	13914.4	136.51	14161	13922.03	140.13	14161	13835.83	151.15
		2op	14038	13971.27	42.96	14064	13985.2	31.24	13993	13804.7	91.73	13721	13721	0

Table A.2249: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18143	17907.13	126.74	18165	17892.77	188.11	18172	17828.63	219.55	18172	17775.6	173.04
		2op	18017	18009.33	11.03	18017	18017	0	18017	18013.93	7.95	17994	17994	0
	50	rnd	18156	17892.7	108.79	18301	18035.93	132.61	18301	17807.47	242.82	18184	17841.37	175.94
51	20	rnd	18017	18010.1	10.72	18017	18017	0	18017	18017	0	18017	17994.77	4.2
		2op	18184	17910.1	196.11	18301	17946.23	155.36	18301	17911.97	163.94	18171	17860.8	179.6
	50	rnd	18017	18012.4	9.36	18017	18017	0	18017	18017	0	18017	18000.13	10.34
	20	rnd	18184	17966.13	181.75	18176	17923.53	167.24	18195	17953.3	155.74	18172	17882.83	167.63
		2op	18017	18012.4	9.36	18017	18017	0	18017	18017	0	18017	18000.13	10.34
	50	rnd	18017	18012.4	9.36	18017	18017	0	18017	18017	0	18017	18000.13	10.34

Table A.2250: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18093	17867.93	161.37	18136	17978.13	141.09	18301	17953.63	180.98	18261	17880.73	193.21
		2op	18017	18009.33	11.03	18017	18017	0	18017	18005.93	8.5	17994	17994	0
	50	rnd	18175	17852.37	190.87	18181	17989.33	163.35	18172	17943.87	189.21	18301	17904.03	187.61
51	20	rnd	18017	18010.1	10.72	18017	18016.73	1.46	18017	18017	0	18017	17994.77	4.2
		2op	18184	17875.3	170.12	18171	17960.73	134.02	18301	17924.6	185.16	18176	17914.63	181.73
	50	rnd	18017	18012.4	9.36	18017	18017	0	18017	18017	0	18017	17997.2	6.16
	20	rnd	18114	17821.67	185.36	18125	17912.17	180.96	18156	17947.6	129.61	18173	17893.63	176.79
		2op	18017	18012.4	9.36	18017	18017	0	18017	18017	0	18016	17997.07	6.73
	50	rnd	18017	18012.4	9.36	18017	18017	0	18017	18017	0	18016	17997.07	6.73

Table A.2251: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18184	17884.03	164.77	18171	17924.43	170.38	18292	17810.6	187.62	18184	17817.83	235.51
		2op	18017	18007.8	11.46	18017	18017	0	18017	18009.33	11.03	17994	17994	0
	50	rnd	18172	17859.87	186.37	18175	17987.93	138.21	18172	17851.97	181.34	18142	17868.37	176.77
51	20	rnd	18017	18007.8	11.46	18017	18017	0	18017	18017	0	17994	17994	0
		2op	18175	17903.53	154.36	18186	17942.23	153.58	18301	17907.8	234.41	18109	17830.6	177.33
	50	rnd	18017	18013.33	8.38	18017	18017	0	18017	18017	0	18017	17999.37	9.89
	20	rnd	18142	17914.8	128.07	18301	17974.53	167.94	18165	17947.57	159.65	18301	17843.33	226.53
		2op	18017	18013.17	8.72	18017	18017	0	18017	18017	0	18017	18002.43	11.27
	50	rnd	18017	18013.17	8.72	18017	18017	0	18017	18017	0	18017	18002.43	11.27

Table A.2252: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18176	17865.17	191.91	18171	17927.53	151.28	18159	17946.8	155.12	18171	17863.13	185.53
		2op	18017	18007.8	11.46	18017	18017	0	18017	18002.07	8.69	17994	17994	0
	50	rnd	18109	17895.8	147.6	18301	17955.97	158.26	18172	17950.93	150.61	18172	17910.5	189.21
			18017	18007.8	11.46	18017	18017	0	18017	18016.6	1.83	17994	17994	0
51	20	rnd	18275	17875.33	164.26	18131	17960.23	133.19	18275	17993.33	143	18084	17828.3	162.51
		2op	18017	18013.93	7.95	18017	18017	0	18017	18017	0	18014	17997.17	6.38
	50	rnd	18301	17944.2	162.28	18301	17959.13	149.95	18301	17949.87	154.26	18134	17923.63	115.8
			18017	18013.17	8.72	18017	18017	0	18017	18017	0	18014	17998.33	6.91

Table A.2253: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18165	17925.4	172.69	18156	17975.07	130.08	18301	17856.17	232.31	18275	17901.4	192.21
		2op	18017	18017	0	18017	18017	0	18017	17997.07	7.95	17994	17994	0
	50	rnd	18184	17957.07	124.57	18301	17980.93	136.15	18171	17890.2	201.91	18044	17777.53	187.56
			18017	18017	0	18017	18017	0	18017	18000.13	10.34	17994	17994	0
51	20	rnd	18175	17959.33	156.93	18175	17970.4	162.89	18301	17960.3	155.51	18119	17831.87	156.64
		2op	18017	18017	0	18017	18017	0	18017	18014.1	7.56	17994	17994	0
	50	rnd	18142	17939.47	149.86	18142	17966.2	147.37	18184	17865.37	216.79	18172	17873.53	181.16
			18017	18017	0	18017	18017	0	18017	18012.4	9.36	17994	17994	0

Table A.2254: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17880.17	228.29	18181	17994.2	131.4	18152	17884.37	141.5	18301	17900.93	151.42
		2op	18017	18017	0	18017	18017	0	18008	17994.7	2.61	17994	17994	0
	50	rnd	18084	17872.13	130.75	18301	18020.37	122	18187	17887.5	174.24	18152	17889.8	166.68
			18017	18017	0	18017	18017	0	18017	17997.47	7.28	17994	17994	0
51	20	rnd	18181	17909.67	209.11	18165	17931.83	160.44	18056	17867.9	160.85	18271	17862.83	202.3
		2op	18017	18017	0	18017	18017	0	18017	18014.27	7.12	17994	17994	0
	50	rnd	18176	18012.1	123.17	18152	17936.77	139.82	18175	17978.8	117.14	18216	17908.57	124.76
			18017	18017	0	18017	18017	0	18017	18011.6	9.38	17994	17994	0

Table A.2255: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21199	20900.03	177.59	21157	20857.17	205.8	21104	20797.03	192.01	21212	20883.13	190.11
		2op	20829	20829	0	20944	20836.97	24.54	20829	20829	0	20829	20829	0
	50	rnd	21212	20903.03	194.15	21203	20909.57	188.45	21177	20813.33	259.85	21206	20831	221.23
51	20	rnd	20945	20833.63	21.45	21041	20892.37	74.85	20829	20829	0	20829	20829	0
		2op	21152	20893.13	171.09	21173	20977.5	161.62	21163	20862.87	224.34	21181	20882.37	178.41
	50	rnd	20829	20829	0	20997	20865.7	61.25	20829	20829	0	20829	20829	0
	20	rnd	21210	20951.07	173.67	21212	20919.67	169.08	21170	20913.1	151.03	21212	20865.4	207.35
		2op	20843	20829.47	2.56	21051	20911.2	75.86	20995	20838.53	33.23	20829	20829	0

Table A.2256: $x60189.7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21184	20865.57	190.69	21178	20929.17	179.31	21209	20901.07	255.59	21150	20869.97	195.18
		2op	20829	20829	0	21193	20855.87	80.5	20829	20829	0	20829	20829	0
	50	rnd	21162	20826.03	233.98	21176	20964.57	136.71	21268	20905.1	183.49	21196	20869.9	228.3
51	20	rnd	21008	20839.43	40.14	21210	20947.8	131.7	20829	20829	0	20829	20829	0
		2op	21172	20834.17	213.84	21196	20920.3	190.01	21186	20962.27	155.88	21192	20826.97	240.74
	50	rnd	20829	20829	0	21193	20914.2	111.85	21115	20838.53	52.22	20829	20829	0
	20	rnd	21238	20816.03	285.37	21186	20935.57	177.98	21212	20957.57	141.56	21172	20891.9	212.04
		2op	20889	20831	10.95	21187	20942.9	106.84	21193	20849.13	68.16	20829	20829	0

Table A.2257: $x60189.7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21159	20831.23	180.06	21212	20873.3	188.17	21212	20857.57	256.52	21132	20857.67	213.98
		2op	20997	20836.6	32.21	20997	20837.83	34.89	20829	20829	0	20829	20829	0
	50	rnd	21198	20924.83	158.92	21218	20935.03	159.39	21184	20780.47	216.52	21162	20832.6	183.47
51	20	rnd	20880	20830.73	9.31	21025	20857.67	56.08	20829	20829	0	20829	20829	0
		2op	21173	20916.23	154.12	21196	20946.03	180.24	21172	20791.2	200.36	21160	20873.87	170.82
	50	rnd	20889	20831	10.95	21048	20887.57	65	20829	20829	0	20829	20829	0
	20	rnd	21182	20918.03	180.01	21169	20913.97	169.22	21151	20923.57	150	21195	20883.73	215.29
		2op	20922	20832.83	17.31	21057	20897.87	84.19	20922	20832.33	16.98	20829	20829	0

Table A.2258: $x60189.7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21175	20870.87	206.61	21135	20943.8	173.4	21166	20830.93	204.32	21233	20848.9	212.81
		2op	20997	20836.6	32.21	21139	20846.73	63.74	20829	20829	0	20829	20829	0
	50	rnd	21233	20881.27	219.5	21212	20994.43	139.03	21149	20784.47	223.99	21157	20846.87	179.42
51	20	rnd	21077	20844.87	60.44	21162	20872	87.71	20829	20829	0	20829	20829	0
		2op	21171	20835.33	230.68	21161	20917.5	160.65	21203	20888.53	237.83	21212	20861.93	188.37
	50	rnd	20889	20831	10.95	21047	20902.1	78.09	20889	20831	10.95	20829	20829	0
	20	rnd	21153	20872.13	190.26	21177	20963.5	173.68	21187	20987.77	116.81	21168	20879.83	173.62
		2op	21042	20839.4	42.31	21093	20952.43	96.46	21187	20848.03	74.89	20829	20829	0

Table A.2259: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21218	20951.07	169.53	21203	20917.97	202.25	21160	20797.4	230.71	21130	20761.17	192.23
		2op	20829	20829	0	21016	20872.13	64.68	20829	20829	0	20829	20829	0
	50	rnd	21218	20908.37	211.59	21161	20901.73	160.59	21160	20802.07	212.69	21087	20795.5	177.88
51	20	rnd	20911	20835.53	20.31	21057	20874.9	75.34	20829	20829	0	20829	20829	0
		2op	21203	20882.17	199.51	21210	20973.17	173.34	21271	20927.8	202.22	21114	20830.47	199.72
	50	rnd	20889	20831	10.95	21057	20869.43	60.03	20889	20831	10.95	20829	20829	0
	20	rnd	21203	20915.8	153.04	21206	20993.53	136.38	21202	20824.27	212.59	21186	20839.33	215.68
		2op	20997	20844.3	42.09	21057	20888.27	70.36	20889	20831	10.95	20829	20829	0

Table A.2260: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21245	20879.13	218.21	21270	20965.83	146.28	21169	20869.83	205.33	21246	20852.7	204.59
		2op	20829	20829	0	21057	20865.63	68.49	20829	20829	0	20829	20829	0
	50	rnd	21271	20905.13	164.41	21227	20996.63	140.13	21190	20813.27	184.32	21160	20820.8	185.78
51	20	rnd	21008	20838.77	35.08	21193	20877.03	90.92	20829	20829	0	20829	20829	0
		2op	21157	20873.8	189.74	21203	20926.33	190.8	21160	20890.3	217.52	21224	20824.37	223.72
	50	rnd	20889	20831	10.95	21193	20902.83	104.34	20889	20831	10.95	20829	20829	0
	20	rnd	21196	20881.1	180.63	21166	20884.23	177.62	21211	20883.37	230.66	21178	20851.03	189.53
		2op	21193	20868.4	106.42	21193	20924.27	122.43	20889	20831	10.95	20829	20829	0

Table A.2261: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	590.47	3.55	595	592.77	1.63	596	593.5	1.91	596	590.87	2.96
		2op	596	592.3	2.59	595	594.9	0.31	596	594.63	0.72	594	593.6	1.1
	50	rnd	596	591.83	2.61	596	593.97	1.27	596	594.23	1.19	595	591.57	2.92
		2op	595	592.57	1.85	596	595	0.26	596	595.13	0.43	595	594.1	0.31
51	20	rnd	596	591.83	2.59	596	593.17	2.02	596	593.6	1.96	596	592.63	1.88
		2op	595	592.87	2	596	594.8	0.48	596	594.97	0.32	596	594.83	0.46
	50	rnd	596	592.9	2.06	596	594.07	1.41	596	594.63	1.13	596	592.4	2.04
		2op	595	593	2.05	596	595.1	0.31	596	595.33	0.48	595	594.6	0.56

Table A.2262: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.4	2.93	596	593.6	1.92	596	593.17	2.1	596	590.73	2.65
		2op	596	592.07	2.42	596	594.57	1.01	596	594.37	1.38	595	593.37	1.35
	50	rnd	596	592.13	2.99	596	594.37	1.4	596	594.63	1.1	595	591.2	3.02
		2op	595	592.57	1.98	596	594.5	0.97	596	594.77	0.77	595	593.77	1.25
51	20	rnd	595	591.13	2.39	596	593.73	1.72	596	594.2	1.4	596	593.03	2.08
		2op	595	593.27	1.86	596	594.87	0.51	596	595.23	0.43	595	594.7	0.53
	50	rnd	596	592.5	2.22	596	594.53	1.17	596	594.67	1.03	596	593.9	1.83
		2op	595	593.07	2.18	596	595	0.69	596	595.13	0.57	596	594.33	1.09

Table A.2263: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.7	2.51	596	593.73	1.72	595	592.3	2.2	596	590.9	3.24
		2op	595	591.6	2.11	595	594.9	0.31	596	594.47	0.57	594	593.03	1.45
	50	rnd	596	591.37	2.97	596	593.63	1.38	596	593.8	1.35	596	590.77	2.7
		2op	595	592.27	2.08	596	595.03	0.32	596	595.07	0.45	595	594	0.26
51	20	rnd	596	591.6	3.46	596	593.53	1.43	596	594.7	1.06	595	592.8	1.69
		2op	595	593.17	1.78	596	595	0.37	596	595.13	0.35	596	594.83	0.46
	50	rnd	596	591.57	2.67	596	594.07	1.41	596	594.6	1.43	596	592.67	2.31
		2op	596	593.2	1.92	596	595.03	0.56	596	595.07	0.25	595	594.57	0.5

Table A.2264: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	590.9	3.36	596	593.93	1.62	596	593.2	1.95	595	591	2.72
		2op	596	591.67	2.17	596	594.73	0.94	596	594.13	1.2	594	592.3	1.56
	50	rnd	595	591.07	2.75	596	594.43	1.28	596	594.33	1.21	596	591.93	2.69
51	20	rnd	596	592.3	2.14	596	595.03	0.93	596	594.77	0.9	595	594.07	0.37
		2op	595	590.73	3.28	596	593.53	1.7	596	594.53	1.59	595	593.13	1.55
	50	rnd	595	593.07	1.7	596	594.9	0.4	596	595.1	0.31	596	594.87	0.51
	20	rnd	596	591.67	2.59	596	594.73	0.91	596	594.53	1.28	596	593.33	1.99
		2op	596	593.4	1.79	596	595.07	0.74	596	595.17	0.75	596	594.47	0.9
	50	rnd	596	592.83	1.97	596	594.37	1.16	596	592.7	2.04	596	591.77	2.11

Table A.2265: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.4	2.76	596	593.93	1.36	596	590.6	3.68	595	589.97	4.09
		2op	596	594.03	0.85	596	595.03	0.49	594	590.33	2.04	589	589	0
	50	rnd	596	592.7	1.78	596	593.4	1.81	595	590.67	2.76	595	589.27	3.78
51	20	rnd	595	593.73	1.2	596	594.8	0.55	594	593.2	1.35	592	589.17	0.65
		2op	596	591.33	2.51	596	593.03	1.9	596	592.2	2.38	595	590.07	2.69
	50	rnd	595	593.73	1.26	596	595.03	0.32	595	594.53	0.51	594	591.17	2.02
	20	rnd	596	593	1.91	596	593.3	1.8	596	592.27	2.15	595	588.73	3.91
		2op	596	594.53	0.9	596	594.9	0.4	595	594.13	0.35	594	589.63	1.5
	50	rnd	596	592.83	1.97	596	594.37	1.16	596	592.7	2.04	596	591.77	2.11

Table A.2266: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.77	2.71	596	594.07	1.31	595	591.43	2.81	595	589.03	3.42
		2op	596	594.33	0.71	596	595.1	0.55	594	589.83	1.37	589	589	0
	50	rnd	595	591.77	2.01	595	593.57	1.36	595	590.83	2.8	595	588.7	3.65
51	20	rnd	596	594	1.26	596	594.87	0.43	594	591.87	1.85	590	589.07	0.25
		2op	596	592.83	1.97	596	594.37	1.16	596	592.7	2.04	596	591.77	2.11
	50	rnd	595	594.13	0.35	596	595.07	0.25	595	594.33	0.48	595	591.63	2.33
	20	rnd	596	592.83	1.53	596	593.77	1.55	596	592.5	2.03	595	589.2	3.65
		2op	596	594.67	0.55	596	595.07	0.58	595	594.17	0.91	592	589.4	0.93
	50	rnd	596	592.83	1.97	596	594.37	1.16	596	592.7	2.04	596	591.77	2.11

Table A.2267: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	767.93	4.59	777	774.47	1.98	777	772.97	2.28	777	770.3	5.57
		2op	775	767.93	2.56	777	773.07	1.93	776	772.2	1.95	772	769.47	0.82
	50	rnd	777	770.4	3.2	776	774.53	1.59	777	774.77	1.55	777	770.43	4.62
51	20	rnd	774	768.23	2.53	777	774.17	1.9	777	774.7	1.37	770	769.37	0.49
		2op	777	770.93	3.11	777	773.57	2.24	777	773.97	2.16	777	772.27	2.24
	50	rnd	770	768.27	1.86	777	772.37	2.04	777	773	1.55	775	771.33	2.04
	20	rnd	777	771.9	2.93	777	774.57	1.81	777	775.17	1.42	777	773.4	2.81
		2op	770	768.3	1.53	777	773.53	1.81	777	773.97	1.67	774	771.43	1.79

Table A.2268: f_{25_400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771	4.91	777	774.43	2.33	777	773.83	2.56	776	772.27	3.53
		2op	775	768.57	3.28	777	774.1	2.29	777	773.13	1.98	771	768.8	0.92
	50	rnd	777	772.03	5.08	777	775.33	1.47	777	775.07	1.8	777	771.93	3.1
51	20	rnd	775	770.03	3.5	777	774.97	1.67	777	775.17	1.91	770	769.33	0.55
		2op	777	771.07	5.25	776	773.33	2.41	777	773.93	1.96	777	772.77	2.51
	50	rnd	775	768.6	2.24	777	772.6	1.75	777	773.33	1.24	775	771.7	1.9
	20	rnd	777	772	4.59	777	774.53	1.53	777	775.27	1.48	777	774.1	1.88
		2op	773	769.37	1.67	777	774.47	1.87	777	775.17	1.66	775	772.1	1.56

Table A.2269: f_{25_400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	768.53	3.56	777	774.13	1.61	777	773.23	2.49	777	770.57	6.87
		2op	773	767.5	2.37	777	772.3	2.17	774	771.4	1.77	770	769.07	1.34
	50	rnd	775	770.2	2.96	777	774.2	1.73	777	774.83	1.42	777	769.8	3.94
51	20	rnd	774	768.77	2.92	777	773.8	1.58	777	774.2	1.54	770	769.43	0.5
		2op	775	769.8	3.6	777	773.03	2.09	777	773.97	1.99	777	773.43	2.24
	50	rnd	770	768.03	1.73	777	772.33	2.31	777	773.37	1.43	776	771.2	1.92
	20	rnd	777	770.87	3.59	777	774.53	1.7	777	775	1.14	777	773.87	2.4
		2op	775	769.27	2.43	777	774.37	1.65	777	774.37	1.63	774	771	1.8

Table A.2270: f_{25_400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.6	2.77	777	774.8	1.85	777	774.23	1.83	777	769.7	5.77
		2op	774	769.07	2.96	777	774.17	2.28	777	772.23	1.7	770	768.27	1.57
	50	rnd	777	772.7	2.9	777	774.87	1.25	777	774.67	1.52	777	771.83	2.68
51	20	2op	775	769.63	2.74	777	775.03	1.87	777	774.93	1.44	770	769.03	0.85
		rnd	777	771.13	4.68	777	773.77	2.36	777	774.1	1.84	777	773.13	3.03
	50	2op	775	768.4	2.24	777	773.4	1.63	777	773.6	1.75	776	772.07	1.68
	50	rnd	777	773.73	1.93	777	774.7	1.78	777	775.7	1.15	777	773.37	2.82
		2op	775	770.1	2.4	777	774.07	1.68	777	775	1.93	777	772.9	2.32

Table A.2271: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	770.4	3.61	777	774.4	1.79	777	770.73	3.69	777	769.13	5.63
		2op	773	769.67	1.21	777	773.53	1.48	770	766.5	1.94	765	765	0
	50	rnd	777	771.57	3.21	777	774	2.26	777	770.77	3.76	777	770.13	3.95
51	20	2op	775	769.6	2.13	777	773.4	1.75	770	768.33	1.67	765	765	0
		rnd	775	770.9	3.58	777	771.5	4.73	777	772.67	2.86	777	771.4	3.54
	50	2op	771	769.57	0.63	774	771.23	1.48	774	770.7	1.34	769	766.3	1.49
	50	rnd	777	772.1	2.44	777	773.5	2.11	777	771.37	2.97	777	770	4.64
		2op	772	769.77	1.01	777	772.13	1.57	772	770.1	1.03	770	765.2	0.92

Table A.2272: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	770.6	3.35	776	773.93	1.53	777	771.2	3.44	775	766.7	9.4
		2op	775	769.7	1.7	777	773.23	1.59	770	765.8	1.47	765	765	0
	50	rnd	777	772.43	2.66	777	774.9	1.58	777	771.73	3.99	776	767.47	6.24
51	20	2op	777	770.7	2.76	777	774.17	1.78	775	768.43	1.87	765	765	0
		rnd	777	771.63	2.77	777	773.43	2.47	777	772.77	2.62	777	771.1	3.14
	50	2op	772	769.7	0.79	776	772.17	1.42	774	770.83	1.51	770	766.3	1.9
	50	rnd	777	773.73	2.23	777	774.1	1.88	777	773.97	2.63	776	769.2	4.98
		2op	775	770.53	1.8	777	772.57	1.55	774	771.23	1.83	768	765.13	0.57

Table A.2273: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	914.9	2.71	921	916.73	2.45	921	915.87	2.78	921	915.43	3.26
		2op	916	912.73	2.95	921	916.97	1.25	921	916.4	1.04	916	915.9	0.55
	50	rnd	919	914.73	2.9	921	917.03	1.61	921	917.5	1.83	921	914.33	2.95
51	20	2op	918	914.6	2.47	919	916.7	0.99	921	917.5	1.74	916	915.97	0.18
		rnd	921	914.63	4.12	921	917.43	2.45	921	917.1	2.4	921	915.77	3.08
	50	2op	916	914.17	2.7	918	916.33	0.71	921	917.37	1.63	918	916.07	0.37
	20	rnd	921	915	2.97	921	916.83	2.13	921	917.57	1.68	921	916.6	2.69
		2op	917	915.2	1.54	921	917.03	1.16	921	917.8	1.37	916	916	0
	50	rnd	921	915.2	1.54	921	917.03	1.16	921	917.8	1.37	916	916	0

Table A.2274: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.5	3.28	921	916.83	2.77	921	916.07	2.68	919	914.73	2.99
		2op	919	913.83	3.32	921	918.53	1.89	921	917.6	1.89	919	915.87	1.8
	50	rnd	921	915.3	2.9	921	917.8	2.35	921	918.5	1.96	919	914	3.55
51	20	2op	921	914.97	2.61	921	918.5	1.94	921	918.93	2.1	919	915.9	1.69
		rnd	919	914.1	3.6	921	915.8	2.44	921	917.57	2.21	921	916.3	2.9
	50	2op	916	914.53	2.1	921	916.93	1.39	921	917.6	1.63	918	916.1	0.66
	20	rnd	919	914.1	3.2	921	916.23	2.37	921	917.23	2.14	921	915.1	3.52
		2op	917	915.03	2.16	921	918.73	2.05	921	919.27	1.78	921	916.63	1.56
	50	rnd	919	914.1	3.2	921	916.23	2.37	921	917.23	2.14	921	915.1	3.52

Table A.2275: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	913.8	3.32	921	916.87	2.56	921	916.63	2.43	919	913.63	3.61
		2op	916	913.63	2.65	921	916.63	1.13	918	916.27	0.64	916	916	0
	50	rnd	919	914.13	3.44	919	916.77	2.11	921	916.47	2.39	919	914.73	3.65
51	20	2op	917	914.6	2.54	919	916.77	0.9	921	916.97	1.4	916	915.83	0.91
		rnd	919	914.2	3.35	921	916	2.26	921	916.9	1.86	921	916.4	3.12
	50	2op	916	914.8	2.07	918	916.27	0.58	919	916.6	0.89	918	916.17	0.53
	20	rnd	918	913.5	3.22	921	917.03	1.75	921	917.67	1.42	921	915.9	3.43
		2op	918	915.03	2.24	919	917.1	0.99	921	918.1	1.06	916	916	0
	50	rnd	918	915.03	2.24	919	917.1	0.99	921	918.1	1.06	916	916	0

Table A.2276: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.17	3.74	921	917.33	1.99	921	916.53	2.56	919	914.6	2.34
		2op	919	914.13	2.58	921	918.33	2.09	921	916.9	1.63	921	916.17	1.46
	50	rnd	921	914	3.26	921	916.9	2.09	921	917.87	2.06	921	915.7	3.33
51	20	rnd	921	915.17	3.22	921	918.4	1.96	921	918.9	1.92	918	916.07	0.87
		2op	919	914.4	2.25	919	915.73	2.02	921	916.43	2.42	921	916.33	3.27
	50	rnd	917	914.87	2.26	921	916.63	2.14	921	918.07	1.98	921	916.43	1.1
	20	rnd	921	915.03	3.05	921	916.87	2	921	918.1	1.6	921	915.7	2.77
		2op	919	914.57	2.43	921	918.53	1.94	921	918.67	1.92	919	916.27	0.83

Table A.2277: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	913.6	3.15	921	916.8	2.37	921	914.17	3.17	921	913.03	3.93
		2op	916	915.67	1.27	921	917.17	1.46	919	915.7	2.31	914	906.27	1.46
	50	rnd	921	914.97	3.05	921	916.43	2.24	921	915.03	2.93	919	913.43	3.84
51	20	rnd	917	915.83	0.79	921	916.6	1.04	916	916	0	912	906.7	1.62
		2op	921	915.2	2.89	921	916.73	2.94	921	916.27	2.77	921	913.33	4.66
	50	rnd	916	916	0	918	916.23	0.57	918	916.1	0.4	919	913.87	2.91
	20	rnd	921	916.27	2.43	921	917.03	3.06	919	914.47	2.78	919	912.83	3.18
		2op	916	916	0	918	916.13	0.43	916	916	0	918	909.63	3.24

Table A.2278: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	913.97	3.22	921	916.93	2.42	917	912.5	2.65	918	910.83	4.74
		2op	918	915.27	1.84	921	917.1	1.54	918	913.87	2.15	907	906.03	0.18
	50	rnd	919	915.5	2.66	921	918.07	1.86	919	914.67	3.1	918	912.63	3.54
51	20	rnd	918	914.73	2.36	921	917.43	1.63	919	915.2	1.94	908	906.27	0.52
		2op	921	915.7	2.41	921	917.13	2.49	921	916.37	2.58	921	914.37	3.24
	50	rnd	916	915.83	0.91	917	916.07	0.25	918	916.07	0.37	919	915	2.74
	20	rnd	921	916.3	3.31	921	916.47	3.05	921	915.77	2.88	921	914.13	3.26
		2op	916	915.97	0.18	921	916.5	1.17	919	916.17	1.02	919	909.8	3.99

Table A.2279: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1556.03	10.9	1577	1554.13	12.09	1572	1555.43	11.5	1577	1553.13	14.23
		2op	1567	1554.67	2.76	1569	1559.07	4.89	1557	1553.17	0.75	1553	1553	0
	50	rnd	1573	1558.77	7.03	1576	1560.7	6.65	1568	1551.4	11.31	1573	1552.73	14.14
51	20	2op	1558	1553.83	1.34	1572	1565.63	4.63	1567	1556.43	3.5	1555	1553.07	0.37
		rnd	1578	1556.17	10.34	1576	1556.23	10.83	1578	1559.4	10.3	1575	1557.33	9.8
	50	2op	1558	1554.27	1.57	1572	1563.5	6.14	1572	1559.13	5.28	1553	1553	0
	20	rnd	1574	1555.5	11.43	1577	1559.23	8.72	1577	1560.63	9.8	1571	1556	9.86
		2op	1562	1555.1	2.02	1573	1562.6	5.77	1572	1563.43	4.5	1557	1553.27	0.87
	50	rnd	1574	1555.5	11.43	1577	1559.23	8.72	1577	1560.63	9.8	1571	1556	9.86

Table A.2280: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1577	1559.2	13.02	1572	1560.77	7.19	1572	1558.3	10.3	1573	1556.77	11.97
		2op	1564	1554.3	2.12	1565	1557.73	3.96	1554	1553.03	0.18	1553	1553	0
	50	rnd	1572	1559.13	9.14	1574	1560.97	6.45	1575	1560.7	7.64	1568	1554.03	12.74
51	20	2op	1568	1554.4	3.32	1572	1561.73	4.35	1564	1555.4	2.92	1555	1553.07	0.37
		rnd	1571	1559.3	10.77	1572	1560.17	8.16	1573	1560.37	10.41	1570	1553.93	11.25
	50	2op	1562	1554.6	2.42	1565	1560.13	3.75	1572	1557.6	4.39	1553	1553	0
	20	rnd	1569	1554.93	10.1	1578	1562.23	7.44	1577	1560.1	6.42	1573	1556.13	9
		2op	1566	1556.07	3.7	1565	1560.27	4.21	1569	1561.53	3.99	1555	1553.13	0.51
	50	rnd	1569	1554.93	10.1	1578	1562.23	7.44	1577	1560.1	6.42	1573	1556.13	9

Table A.2281: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1556.33	9.98	1575	1556.6	10.75	1576	1556.03	10.9	1574	1552.93	13.69
		2op	1558	1553.93	1.46	1569	1559.33	4.72	1562	1553.8	1.95	1553	1553	0
	50	rnd	1575	1558.03	8.2	1574	1557	10.07	1573	1557.47	7.86	1571	1553.97	12.12
51	20	2op	1558	1553.93	1.6	1572	1564.6	5.08	1563	1554.93	2.39	1553	1553	0
		rnd	1577	1559.37	11.33	1574	1555.13	11	1573	1556.3	9.83	1570	1551.4	13.63
	50	2op	1564	1555.27	2.86	1573	1563.3	5.31	1566	1558	3.77	1553	1553	0
	20	rnd	1572	1558.1	8.88	1572	1558.27	9.74	1572	1554.97	10.45	1578	1557.07	12.3
		2op	1558	1554.1	1.32	1572	1564.63	4.94	1572	1563.13	5.08	1563	1553.6	2.04
	50	rnd	1572	1558.1	8.88	1572	1558.27	9.74	1572	1554.97	10.45	1578	1557.07	12.3

Table A.2282: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1572	1557.5	8.76	1576	1559.43	8.06	1573	1556.6	8.7	1580	1557.3	10.89
		2op	1570	1554.27	3.15	1565	1557.5	3.98	1560	1553.37	1.35	1553	1553	0
	50	rnd	1575	1558.53	9.16	1576	1561.5	7.35	1574	1559.53	8.78	1574	1553.93	10.01
		2op	1570	1554.47	3.61	1566	1560.4	4.34	1558	1554	1.29	1553	1553	0
51	20	rnd	1577	1559.53	8.41	1580	1559.57	8.16	1574	1559.47	8.95	1573	1555.5	10.42
		2op	1563	1555.6	3.47	1565	1560.17	4.21	1572	1558.1	4.89	1553	1553	0
	50	rnd	1576	1560.13	9.98	1579	1562.3	8.22	1579	1560.57	7.86	1573	1556.47	10.83
		2op	1569	1554.9	3.8	1565	1560.6	3.83	1572	1560.53	4.7	1553	1553	0

Table A.2283: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1559.07	7.7	1576	1557.2	10.96	1568	1552.5	16.38	1571	1551.67	14.01
		2op	1565	1555.07	2.94	1565	1554.77	2.25	1563	1553.33	1.83	1553	1553	0
	50	rnd	1570	1556.37	7.98	1578	1558.87	9.79	1572	1558.4	10.1	1577	1555.4	11.85
		2op	1560	1555.37	1.65	1562	1554.77	1.79	1555	1553.07	0.37	1553	1553	0
51	20	rnd	1574	1558.6	11.42	1578	1560.87	7.57	1570	1556.03	9.6	1568	1552.77	10.66
		2op	1568	1557.33	3.85	1568	1562.33	3.65	1555	1553.27	0.58	1553	1553	0
	50	rnd	1574	1561.67	6.68	1572	1559.23	7.26	1571	1555.4	12.59	1573	1555.33	12.57
		2op	1566	1558	3.66	1565	1558.9	3.68	1557	1553.2	0.81	1553	1553	0

Table A.2284: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1580	1559.13	9.09	1575	1555.97	11.28	1573	1553.13	14.47	1570	1554.07	11.52
		2op	1568	1555.87	4.3	1567	1556.47	4.45	1553	1553	0	1553	1553	0
	50	rnd	1574	1560.03	8.24	1572	1559.37	7.7	1578	1556.23	8.91	1570	1558.23	10.79
		2op	1564	1555.5	2.35	1564	1554.57	1.99	1555	1553.07	0.37	1553	1553	0
51	20	rnd	1578	1559.47	8.23	1576	1561.13	6.92	1575	1558.03	9.99	1574	1554.6	10.49
		2op	1564	1557	2.82	1571	1565.53	3.87	1559	1553.7	1.6	1553	1553	0
	50	rnd	1572	1559.27	7.11	1573	1559.77	7.32	1576	1556.43	8.77	1577	1559.2	9.08
		2op	1568	1559.33	4.06	1569	1559.37	4.51	1555	1553.07	0.37	1553	1553	0

Table A.2285: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1542.5	15.73	1570	1548.87	11.1	1566	1548.37	12.2	1568	1547.53	9.28
		2op	1557	1532.83	5.17	1560	1537.57	9.47	1531	1531	0	1531	1531	0
	50	rnd	1563	1543.8	11.25	1569	1552.47	10.36	1569	1554.6	10.57	1564	1549.67	10.32
51	20	2op	1539	1531.7	2.12	1560	1543.87	9.94	1540	1531.5	1.78	1531	1531	0
		rnd	1563	1545.37	10.8	1569	1551.47	8.81	1568	1555.6	8.1	1569	1552.27	10.55
	50	2op	1556	1534.63	6.36	1565	1541.83	10.56	1556	1535.97	6.67	1531	1531	0
	20	rnd	1563	1546.13	11.44	1566	1548.97	8.61	1567	1551.33	9.54	1568	1551.47	12.71
		2op	1556	1535.67	8.11	1566	1541.83	9.99	1565	1541.17	8.68	1531	1531	0

Table A.2286: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1554.33	10.69	1569	1556.63	7.9	1566	1551.2	12	1565	1548.37	11.71
		2op	1563	1536	10.72	1564	1538.53	11.36	1531	1531	0	1531	1531	0
	50	rnd	1571	1552.93	9.67	1570	1557.27	6.89	1567	1555.43	8.23	1564	1551.83	9.5
51	20	2op	1561	1534.33	8.77	1570	1545.43	13.53	1561	1533.4	7.37	1531	1531	0
		rnd	1567	1554.63	11.11	1571	1556.47	8.82	1570	1558.37	6.56	1570	1551.57	9.68
	50	2op	1563	1540.33	12.22	1565	1548.07	11.53	1567	1548.97	13.73	1531	1531	0
	20	rnd	1570	1551.87	7.58	1567	1556.57	7.73	1568	1559.33	6.1	1567	1550.87	11.87
		2op	1566	1541.63	13.81	1565	1550.3	12.2	1569	1553.33	11.22	1550	1531.63	3.47

Table A.2287: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1543.83	10.56	1566	1551.43	9.93	1565	1547.37	15.16	1567	1550.73	10.18
		2op	1548	1532.3	4.33	1565	1537.03	9.65	1531	1531	0	1531	1531	0
	50	rnd	1561	1545	11.29	1563	1553.3	7.43	1569	1550.47	10.01	1569	1551.57	10.49
51	20	2op	1549	1532.3	4.47	1565	1548.23	12.22	1540	1531.3	1.64	1531	1531	0
		rnd	1565	1543.23	8.95	1564	1550.87	9.21	1565	1553	8.91	1567	1549	11.02
	50	2op	1556	1533.4	5.6	1561	1542.47	9.69	1556	1536	7	1531	1531	0
	20	rnd	1566	1549.57	10.77	1567	1548.77	10.65	1567	1551.67	9.54	1562	1547.63	9.81
		2op	1552	1533.87	5.04	1555	1539.17	7.86	1566	1544.03	10.2	1531	1531	0

Table A.2288: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1552	10.72	1569	1557.5	7.88	1569	1550.43	10.66	1566	1545.67	11.58
		2op	1557	1534.33	8.67	1563	1538.27	11.54	1531	1531	0	1531	1531	0
	50	rnd	1569	1555.13	9.96	1570	1556	7.65	1568	1553.27	8.15	1567	1546.6	13.18
51	20	rnd	1560	1533.47	7.6	1563	1543.97	10.8	1531	1531	0	1531	1531	0
		2op	1565	1553.53	7.29	1568	1551.97	9.14	1569	1554.53	8.36	1564	1553.13	7.79
	50	rnd	1564	1537.5	11.13	1566	1547.43	12.49	1566	1542.5	13.9	1531	1531	0
	20	rnd	1565	1554.47	8.54	1568	1556.23	8.35	1568	1558.53	6.52	1566	1555	11.84
		2op	1563	1540.9	13.55	1568	1549.5	14.43	1569	1553.47	11.96	1531	1531	0

Table A.2289: f_{50_412} : transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1561	1545.2	9.17	1567	1552.03	9.53	1569	1548.63	9.89	1566	1546.2	13.04
		2op	1552	1533.07	4.58	1550	1538.27	5.91	1531	1531	0	1531	1531	0
	50	rnd	1565	1547.87	10.26	1569	1549.87	11.44	1563	1547.23	12.29	1569	1546.7	11.46
51	20	rnd	1552	1535	7.01	1551	1535.4	5.9	1531	1531	0	1531	1531	0
		2op	1567	1552.03	10.88	1568	1556.3	7.75	1569	1551.33	11.99	1570	1551.2	12.33
	50	rnd	1556	1539.97	7.5	1559	1548.87	6.06	1537	1531.43	1.38	1531	1531	0
	20	rnd	1565	1549.43	9.81	1565	1550.73	8.1	1568	1548.07	12.74	1565	1544.83	12.66
		2op	1556	1544.03	9.08	1561	1545.4	9.09	1531	1531	0	1531	1531	0

Table A.2290: f_{50_412} : basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1552.63	10.16	1570	1557.73	5.53	1564	1547.87	9.86	1570	1550.9	10.4
		2op	1569	1538.93	13.04	1573	1550.5	12.28	1531	1531	0	1531	1531	0
	50	rnd	1570	1552.07	7.68	1570	1557.23	7.99	1566	1548	13.9	1560	1545.33	11.21
51	20	rnd	1570	1540.6	13.47	1569	1544.73	15.52	1531	1531	0	1531	1531	0
		2op	1572	1555.97	9.23	1570	1556.83	9.42	1564	1551.03	9.33	1567	1550.87	9.64
	50	rnd	1564	1553	8.4	1565	1556.83	2.61	1561	1533.77	8.48	1531	1531	0
	20	rnd	1567	1555.37	8.73	1570	1556	8	1569	1554.4	10.86	1571	1551.27	11.24
		2op	1565	1554.03	10.25	1565	1554.67	8.35	1531	1531	0	1531	1531	0

Table A.2291: f_{50_412} : transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1558	1547.3	8.48	1566	1550.27	8	1567	1547.8	9.26	1565	1548.53	7.4
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1562	1547.97	9.29	1565	1548.8	7.48	1566	1550	9.87	1561	1551.47	6.48
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1559	1545.77	8.34	1565	1550.27	10.15	1567	1549.33	10.45	1559	1548.03	7.21
	50	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	20	rnd	1565	1548.63	9.49	1564	1549.13	7.39	1568	1549.37	8.39	1566	1549.93	8.54
		2op	1549	1548.03	0.18	1549	1548.03	0.18	1551	1548.13	0.57	1548	1548	0
	50	rnd	1549	1548.03	0.18	1549	1548.03	0.18	1551	1548.13	0.57	1548	1548	0

Table A.2292: $f_{50.498}$: basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1565	1549.07	9.54	1567	1554.87	6.17	1568	1547.87	9.31	1562	1547.33	8.82
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1563	1550.17	8.35	1565	1552.3	5.42	1566	1550.5	8.26	1561	1548.5	8.73
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1562	1551	7.71	1566	1551.9	8.5	1565	1552.57	7.67	1562	1549.7	9.36
	50	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	20	rnd	1561	1549.33	8.41	1564	1550.83	6.79	1568	1553.23	7.88	1564	1548.4	9.27
		2op	1550	1548.07	0.37	1550	1548.13	0.51	1550	1548.07	0.37	1548	1548	0
	50	rnd	1550	1548.07	0.37	1550	1548.13	0.51	1550	1548.07	0.37	1548	1548	0

Table A.2293: $f_{50.498}$: transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1561	1545.77	9.94	1566	1547.97	9.23	1567	1547.53	11.36	1567	1551	8.52
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1558	1546.33	7.64	1565	1548.5	8.41	1565	1547.3	11.87	1564	1550.43	9.27
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1566	1548.03	8.5	1566	1548.17	8.91	1568	1549.4	8.96	1565	1543.83	13.08
	50	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	20	rnd	1561	1547.63	8.62	1566	1551.3	6.72	1564	1548.57	8.77	1563	1549.87	7.2
		2op	1548	1548	0	1548	1548	0	1551	1548.23	0.77	1548	1548	0
	50	rnd	1548	1548	0	1548	1548	0	1551	1548.23	0.77	1548	1548	0

Table A.2294: $f_{50.498}$: basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1550.13	10.9	1564	1550.23	9.08	1563	1550.23	9.43	1563	1547.27	8.66
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1565	1546.63	9.56	1565	1551.67	6.76	1560	1550.13	7.64	1563	1546.9	10.66
51	20	rnd	1548	1548	0	1556	1548.27	1.46	1548	1548	0	1548	1548	0
		2op	1562	1549.23	10.11	1565	1552.17	7.56	1565	1547.67	8.04	1564	1548.8	8.87
	50	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	20	rnd	1563	1550.43	7.38	1568	1551.73	8.54	1565	1552.4	9.84	1561	1550.1	7.12
		2op	1548	1548	0	1548	1548	0	1549	1548.07	0.25	1548	1548	0

Table A.2295: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1547.13	8.76	1561	1548.2	9.03	1560	1543.6	10.77	1566	1548.53	8.9
		2op	1548	1548	0	1549	1548.03	0.18	1548	1548	0	1548	1548	0
	50	rnd	1564	1547.13	8.2	1563	1550.1	8.65	1565	1549.53	9.82	1564	1546.97	10.68
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1561	1548.53	6.3	1567	1550.87	9.55	1566	1548.37	8.26	1565	1548.07	10.01
	50	rnd	1549	1548.03	0.18	1551	1548.53	0.68	1548	1548	0	1548	1548	0
	20	rnd	1564	1549.63	7.88	1560	1547.7	8.14	1566	1548.73	8.99	1568	1546.17	10.18
		2op	1549	1548.07	0.25	1549	1548.1	0.31	1548	1548	0	1548	1548	0

Table A.2296: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1553.43	8.73	1565	1551.2	9.46	1568	1547.73	10.51	1565	1548.47	10.21
		2op	1548	1548	0	1550	1548.07	0.37	1548	1548	0	1548	1548	0
	50	rnd	1567	1548.4	7.33	1564	1553.37	6.55	1566	1547.43	10.62	1562	1547.4	9.25
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1565	1550.87	7.98	1563	1553.77	7.96	1565	1548.43	9.7	1564	1547.47	11.39
	50	rnd	1550	1548.07	0.37	1550	1548.87	1.01	1548	1548	0	1548	1548	0
	20	rnd	1567	1548.97	8	1570	1553.07	8.6	1565	1548.33	8.47	1562	1547.57	9.65
		2op	1550	1548.13	0.51	1550	1548.13	0.51	1548	1548	0	1548	1548	0

Table A.2297: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2762	2739.93	11.6	2780	2743.2	15.47	2758	2736.83	12.41	2767	2735.77	15.51
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2763	2741.9	12.86	2765	2741.13	12.04	2771	2746.7	13.43	2763	2733.1	12.9
51	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2762	2735.7	17.59	2766	2742.03	14.95	2767	2740.5	11.45	2772	2741.27	15
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.2298: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2775	2745.43	12.37	2771	2747.4	12.24	2771	2742.87	15.5	2757	2740.63	10.76
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2759	2741.83	10.49	2758	2742.43	12.12	2764	2741.33	12.33	2765	2742.07	13.61
51	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2768	2741.5	12.64	2762	2745.83	9.3	2767	2740.8	14.58	2764	2736.3	14.14
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2771	2747.6	11.94	2764	2745.77	12.51	2767	2741.97	10.61	2763	2743.03	9.73
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.2299: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2773	2740.47	17.39	2764	2740.67	14.86	2761	2741.47	11.95	2766	2741.37	19.15
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2772	2742.53	11.68	2761	2739.87	15.75	2761	2742.83	11.19	2768	2740.03	15.66
51	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2770	2739.2	13.97	2762	2739.87	15.91	2759	2737.03	15.24	2770	2739.6	18.61
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2775	2739.57	12.79	2772	2740.17	19.26	2767	2742.3	13.43	2759	2741.6	12.01
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.2300: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2769	2744.13	18.01	2770	2743.97	13.74	2766	2741.4	13.77	2766	2746.3	10.41
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2746.93	12.22	2768	2741.8	12.79	2765	2742.2	13.94	2763	2743.27	12.24
51	20	rnd	2764	2739.1	13.96	2774	2743.8	14.74	2763	2742.77	10.08	2767	2740.3	14.69
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2742.53	11.75	2770	2745.97	10.55	2760	2741.83	9.08	2762	2740.23	16.01
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.2301: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2765	2740.83	13.99	2767	2743	14.82	2767	2744.6	14.09	2770	2741.4	13.37
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2739.73	12.51	2766	2743.4	11.52	2772	2742.53	15.67	2763	2743.23	11.83
51	20	rnd	2767	2739.67	15.33	2763	2738.2	13.06	2768	2738.93	17.31	2773	2740.37	14.28
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2759	2737.9	18.6	2759	2739.83	11.53	2769	2740.83	15.59	2773	2742.83	13.22
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.2302: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2766	2745.67	12.8	2771	2742.87	14.03	2760	2740.33	12.4	2765	2738.1	14.19
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2763	2741.57	12.93	2766	2742.37	14.12	2761	2743.03	10.45	2763	2736.83	13.97
51	20	rnd	2769	2746.7	14.03	2766	2746.53	9.54	2766	2744.27	12.45	2768	2743.83	15.24
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2769	2748.4	12.43	2763	2743.9	11.37	2764	2744.3	12.49	2761	2739.5	12.81
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.2303: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2834	2810.1	14.44	2838	2814.1	13.2	2845	2809.4	16.84	2835	2808.7	12.44
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2837	2813.87	16.35	2830	2811.4	14.13	2834	2807.53	17.03	2837	2805.97	14.87
		2op	2804	2804	0	2810	2807.2	3.04	2810	2804.2	1.1	2804	2804	0
51	20	rnd	2834	2809.7	14.7	2842	2815.6	9.57	2844	2813.63	12.79	2837	2809.1	16.26
		2op	2804	2804	0	2810	2806.8	3.04	2810	2804.6	1.83	2804	2804	0
	50	rnd	2827	2808.7	10.57	2837	2811.73	18.95	2834	2812.4	12.84	2829	2806.13	12.85
		2op	2804	2804	0	2810	2806.8	3.04	2810	2805.6	2.7	2804	2804	0

Table A.2304: f_{100_415} : basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2810.7	14.63	2843	2814.4	14.4	2837	2814.13	15.34	2839	2813.9	12.79
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2837	2815.67	11.85	2838	2817.37	9.07	2840	2812.57	12.91	2835	2811.07	12.23
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2831	2813.4	12.44	2835	2818.8	12.93	2835	2810.73	18.79	2844	2811.87	12.11
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2837	2814.17	10.49	2838	2813.37	14.43	2832	2814.6	10.7	2842	2815.47	13.99
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.2305: f_{100_415} : transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2827	2813.33	10.91	2830	2810.43	15.93	2838	2810.03	16.83	2838	2809.8	16.1
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2828	2813.37	8.71	2829	2813.1	9.13	2846	2812.37	16.9	2845	2813.27	13.93
		2op	2804	2804	0	2810	2805.8	2.8	2804	2804	0	2804	2804	0
51	20	rnd	2833	2807.73	14.14	2832	2812.53	14.3	2838	2810.37	13.69	2838	2814.4	10.51
		2op	2804	2804	0	2810	2806	2.88	2810	2804.4	1.52	2804	2804	0
	50	rnd	2842	2808.77	12.38	2835	2811.57	16.53	2838	2813.83	15.64	2836	2813.47	11.78
		2op	2804	2804	0	2810	2807.2	3.04	2810	2805.4	2.58	2804	2804	0

Table A.2306: f_{100_415} : basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2836	2814.27	12.29	2837	2810.27	15.73	2838	2814.8	14.12	2837	2814.8	10.91
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2839	2815.6	12.92	2840	2817.3	10.48	2840	2814.5	14.17	2843	2812.33	11.7
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2837	2814.9	13.12	2849	2819.43	13.17	2836	2812.9	13.4	2833	2810.93	14.23
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2839	2812	15.11	2838	2816.63	13.35	2842	2815.73	12.67	2838	2812.47	17.08
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.2307: f_{100_415} : transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2837	2810.47	16.11	2833	2807.57	17.14	2833	2813.1	12.89	2833	2809.67	15.24
		2op	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
	50	rnd	2839	2809.97	15.41	2839	2811.97	14.07	2840	2811.47	11.83	2837	2811.77	12.66
		2op	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
51	20	rnd	2836	2811.6	12.81	2842	2811.37	12.45	2839	2809.77	17.31	2835	2810.37	13.57
		2op	2804	2804	0	2810	2804.6	1.83	2804	2804	0	2804	2804	0
	50	rnd	2836	2811.97	9.86	2838	2807.2	13.97	2836	2814.77	10.4	2847	2811.97	15.89
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0

Table A.2308: f_{100_415} : basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2815.53	13.98	2835	2810.2	13.56	2837	2811.47	13.81	2825	2805.8	13.12
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
	50	rnd	2841	2814.9	13.81	2842	2815.57	14.3	2835	2805.03	15.11	2835	2814.8	11.06
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0
51	20	rnd	2835	2815.17	11.42	2838	2816.5	15.76	2835	2811.67	13.78	2842	2814.87	15.36
		2op	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
	50	rnd	2842	2817.4	13.87	2838	2817.9	12.24	2834	2813.77	12.71	2845	2811.83	16.74
		2op	2804	2804	0	2804	2804	0	2804	2804	0	2804	2804	0

Table A.2309: f_{100_415} : transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2709	2682.07	13.94	2710	2683.53	14.76	2714	2686.57	14.43	2702	2680.13	14.46
		2op	2700	2690.13	4.28	2698	2689.9	3.98	2687	2687	0	2687	2687	0
	50	rnd	2700	2683.37	13.28	2710	2684.37	17.53	2716	2683.37	11.39	2708	2687.77	11.23
51	20	2op	2706	2690.83	5.23	2702	2695.63	3.05	2695	2687.27	1.46	2687	2687	0
		rnd	2706	2683.07	12.72	2711	2685.7	15.65	2715	2687.43	14.11	2706	2684.3	10.92
	50	2op	2697	2691.2	4.05	2700	2694.7	3.71	2699	2689.97	4.41	2687	2687	0
	20	rnd	2708	2678.43	14.62	2713	2683.13	18.89	2710	2684.67	12.44	2710	2682.93	13.94
		2op	2698	2692.1	4	2702	2695.67	1.75	2698	2693.67	2.96	2687	2687	0
	50	rnd	2708	2678.43	14.62	2713	2683.13	18.89	2710	2684.67	12.44	2710	2682.93	13.94
	50	2op	2698	2692.1	4	2702	2695.67	1.75	2698	2693.67	2.96	2687	2687	0

Table A.2310: $f_{100.512}$: basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2682.97	12.42	2718	2689	14.94	2705	2686.83	11.3	2709	2684.5	13.12
		2op	2696	2689.9	3.9	2695	2689.47	3.43	2687	2687	0	2687	2687	0
	50	rnd	2708	2685.5	12.61	2708	2686.47	13.01	2704	2681.97	13.66	2710	2683.67	13.6
51	20	2op	2695	2690.03	3.83	2700	2693.47	3.32	2695	2687.27	1.46	2687	2687	0
		rnd	2712	2683.83	13.62	2700	2686.53	9.53	2705	2685.7	14.5	2709	2683.37	10.8
	50	2op	2695	2691.03	3.93	2696	2692.47	3.08	2695	2688.27	2.52	2687	2687	0
	20	rnd	2711	2691.03	14.01	2714	2688.93	11.62	2707	2684.8	14.25	2699	2680.3	15.67
		2op	2695	2691.73	3.81	2696	2694.57	1.3	2696	2692.23	2.94	2687	2687	0
	50	rnd	2711	2691.03	14.01	2714	2688.93	11.62	2707	2684.8	14.25	2699	2680.3	15.67
	50	2op	2695	2691.73	3.81	2696	2694.57	1.3	2696	2692.23	2.94	2687	2687	0

Table A.2311: $f_{100.512}$: transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2700	2678.9	11.61	2713	2685.23	15.38	2710	2684.07	12.28	2706	2684.17	14.9
		2op	2699	2690.37	4.11	2699	2690.17	4.41	2687	2687	0	2687	2687	0
	50	rnd	2703	2684.07	11.43	2703	2683.47	10.51	2718	2683.87	12.34	2709	2682.33	14.12
51	20	2op	2698	2690.8	4.22	2706	2694.67	4.2	2698	2687.37	2.01	2687	2687	0
		rnd	2704	2679.5	12.68	2708	2685.97	13.7	2704	2682.23	13.35	2698	2678.97	14.18
	50	2op	2700	2691	4.5	2700	2694.47	3.23	2704	2690.27	5.03	2687	2687	0
	20	rnd	2703	2679.27	13.84	2708	2685.97	14.42	2707	2687.6	12.16	2707	2687.33	12.29
		2op	2698	2691.83	4.07	2700	2695.93	1.51	2700	2693.23	4.45	2687	2687	0
	50	rnd	2703	2679.27	13.84	2708	2685.97	14.42	2707	2687.6	12.16	2707	2687.33	12.29
	50	2op	2698	2691.83	4.07	2700	2695.93	1.51	2700	2693.23	4.45	2687	2687	0

Table A.2312: $f_{100.512}$: basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2713	2686.9	13.85	2706	2689.37	11.14	2707	2688.2	9.3	2703	2685.03	13.53
		2op	2695	2689.63	3.39	2695	2689.07	3.07	2687	2687	0	2687	2687	0
	50	rnd	2702	2685.6	11.51	2712	2693.67	11.06	2703	2686.97	12.54	2709	2682.37	13.88
51	20	2op	2695	2690.33	3.81	2696	2692.53	3	2693	2687.2	1.1	2687	2687	0
		rnd	2709	2688	11.42	2708	2685.1	11.59	2709	2683.2	15.57	2717	2685.5	16.35
	50	2op	2695	2690.47	3.85	2695	2692.8	2.85	2695	2688.57	2.99	2687	2687	0
	20	rnd	2708	2683.97	11.42	2712	2689.73	12.89	2705	2683	11.9	2703	2684.17	16.39
		2op	2695	2691.53	3.85	2695	2694.37	1.69	2696	2691.27	3.56	2687	2687	0

Table A.2313: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2705	2678.3	11.29	2708	2684.3	13.05	2707	2687.03	11.52	2711	2689.1	16.7
		2op	2700	2691.97	4.33	2700	2690.83	4.8	2687	2687	0	2687	2687	0
	50	rnd	2702	2682.13	10.54	2706	2684.3	13.31	2706	2686.33	13.65	2711	2686.7	13
51	20	2op	2698	2694.3	2.53	2698	2691.5	4.39	2695	2687.27	1.46	2687	2687	0
		rnd	2700	2678.97	13.47	2703	2678.63	15.27	2705	2688.47	8.96	2713	2684.53	12.4
	50	2op	2700	2694.5	3.33	2699	2694.9	2.32	2697	2687.7	2.25	2687	2687	0
	20	rnd	2698	2684	11.47	2708	2685.73	13.76	2715	2687.6	12.83	2716	2685.53	14.8
		2op	2696	2695.07	0.25	2699	2693.37	3.45	2695	2688	2.61	2687	2687	0

Table A.2314: f_{100_512} : basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2707	2689.5	10.61	2714	2690.03	11.61	2710	2684.97	14.67	2701	2682.2	15.84
		2op	2695	2691.43	3.8	2695	2689.57	3.37	2687	2687	0	2687	2687	0
	50	rnd	2711	2688.63	13.82	2708	2684.67	15.88	2703	2684.63	13.24	2711	2685.67	11.35
51	20	2op	2695	2694.13	2.45	2695	2691	3.86	2695	2687.27	1.46	2687	2687	0
		rnd	2706	2686.1	12.67	2705	2688.57	9.08	2711	2686.83	15.97	2709	2683.83	12.16
	50	2op	2699	2694.43	2.91	2708	2696.2	3.74	2695	2687.53	1.76	2687	2687	0
	20	rnd	2709	2684.37	14.9	2702	2681.07	13.43	2710	2686.57	11.45	2713	2686.7	14.63
		2op	2696	2695.13	0.35	2696	2692.2	3.53	2695	2687.63	2.04	2687	2687	0

Table A.2315: f_{100_512} : transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17870	17791.77	36.7	17886	17803	34.56	17887	17788.53	47.04	17845	17779.9	44.85
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17906	17800.47	45	17856	17799.73	35.11	17899	17799.47	35.64	17878	17785.33	46.37
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17899	17802.9	38.21	17871	17798.8	34.96	17866	17793.8	42.53	17860	17796.47	36.81
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17859	17792.17	35.18	17847	17781.93	38.19	17921	17808.7	37.78	17876	17791	48.27
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2316: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17882	17786.2	42.05	17841	17796.1	32.29	17871	17789.2	39.13	17863	17792.4	41.13
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17871	17807.37	32.64	17878	17798.63	36.52	17877	17803.53	41.03	17855	17782.07	37.76
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17857	17791.1	41.11	17876	17812.03	35.42	17834	17786.23	41.81	17848	17785.43	39.5
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17866	17801.43	38.79	17869	17792.57	39.73	17878	17799.2	47.72	17889	17802.93	49.79
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2317: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17880	17792.03	40.22	17880	17804.97	33.95	17886	17787.7	45.68	17882	17796.63	40.29
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17861	17798.4	33.86	17850	17798.53	31.82	17884	17790.37	44.28	17877	17796.9	45.64
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17897	17797.2	39.64	17861	17796.23	35.58	17866	17793.8	41.1	17863	17800.83	36.76
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17921	17803.57	41.35	17876	17793.77	44.69	17866	17783	44.78	17893	17808.33	41.73
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2318: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17844	17790.5	29.01	17910	17801.73	44	17880	17794.73	46.31	17887	17806.9	31.33
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17886	17803.37	36.65	17879	17804.57	36.42	17882	17815.67	30.07	17843	17789.63	32.32
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17925	17797.07	41.17	17868	17797	43.42	17887	17792.33	47.55	17868	17796.07	36.27
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17853	17796.63	33.31	17861	17801.5	33.06	17898	17808.4	30.79	17833	17792.77	34.09
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2319: $f_{508.354}$: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17853	17797.6	40.81	17877	17789.93	35.25	17843	17788.17	32.32	17862	17793.07	43.34
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17868	17797.23	44.88	17883	17806.77	36.28	17866	17800.07	29.95	17881	17793.03	46.05
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17841	17789.63	38.56	17834	17782.23	31.52	17904	17785.93	43.57	17883	17795.3	43.21
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17899	17797.63	44.4	17851	17800.33	31.84	17861	17803.53	32.55	17872	17798.73	37.59
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2320: $f_{508.354}$: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17879	17798.03	37.31	17899	17790.47	53.04	17880	17790.57	40.15	17866	17795.7	37.21
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17865	17800.37	27.98	17859	17809.8	30.08	17901	17814.67	40.25	17888	17806.53	43.87
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17865	17804.77	32.95	17862	17802.3	27.88	17849	17797	36.03	17906	17810.43	39.77
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17836	17782.27	32.19	17874	17789.47	36.63	17853	17790.17	31.19	17867	17801.9	37.22
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2321: $f_{508.354}$: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22166	22068.7	38.72	22124	22045.63	51.44	22139	22066.67	39.99	22154	22049.23	46.84
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22137	22063.8	53.57	22180	22076.07	47.99	22141	22059.43	50.97	22129	22064.27	35.39
51	20	rnd	22138	22068.4	38.27	22178	22072.13	52.6	22133	22064.53	40.4	22123	22064.33	41.55
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22175	22065.27	54.99	22162	22065.77	38.94	22146	22061.5	42.27	22171	22066.8	48.14
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2322: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22138	22071.3	45.43	22170	22064.8	43.43	22183	22056.63	48.21	22133	22060.53	36.71
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22167	22082.27	39.56	22143	22070.47	43.39	22161	22075.33	47.57	22170	22080.4	39.39
51	20	rnd	22164	22082	51.82	22146	22066.33	34.85	22170	22065.7	44.12	22193	22066.6	54.18
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22137	22069.23	43.42	22143	22057.6	48.01	22139	22065.53	46.61	22202	22084.37	46.51
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2323: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22163	22078.77	47.16	22160	22080.27	45.12	22130	22050	42.62	22133	22053.47	42.87
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22162	22057	46.54	22134	22058.33	42.67	22148	22055.83	45.7	22135	22063.97	41.79
51	20	rnd	22192	22068.07	47.16	22155	22073.33	51.26	22146	22065.43	42.14	22154	22061.8	50.3
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22148	22064.6	43.2	22160	22058.07	45.14	22168	22067.17	35.91	22168	22071.2	43.66
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2324: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22140	22059.03	36.75	22184	22082.97	46.58	22146	22057.5	46.54	22145	22065.43	42.4
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22141	22068.53	46.9	22145	22060.7	37.7	22155	22067.73	51.82	22161	22070.83	43.84
51	20	rnd	22144	22071.83	43.05	22157	22073.23	43.72	22183	22055.93	44.98	22144	22067.37	43.53
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22120	22066.67	35.27	22136	22065.27	45.87	22143	22047	58.62	22155	22060.2	46.45
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2325: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22164	22058.03	51.71	22155	22063.5	43.82	22137	22065.53	38.39	22220	22069	53.22
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22136	22061.77	35.82	22128	22063.03	44.63	22176	22077.53	40.82	22157	22060.33	47.29
51	20	rnd	22142	22076.33	44.3	22158	22068.6	49.43	22182	22087.17	43.58	22146	22066.73	47.13
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22128	22042.77	54.62	22169	22065.13	39.38	22176	22065.6	46.62	22148	22060.73	48.87
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2326: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22178	22084.53	48.81	22150	22075.37	52.84	22203	22078.03	50.14	22133	22049.13	43.7
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22163	22065.93	48.08	22153	22060.87	52.35	22130	22048.6	45.97	22128	22056.87	47.98
51	20	rnd	22199	22068.6	47.82	22199	22068.6	47.82	22143	22067.33	44.74	22200	22068.97	60.78
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22155	22076.93	44.65	22155	22078.97	42.31	22154	22072.8	43.81	22166	22062.43	45.63
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2327: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24735	24674.03	43.38	24731	24659.37	49.11	24762	24667.8	51.36	24741	24671.9	43.3
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24754	24651.7	60.03	24775	24656.33	39.57	24732	24663.2	40.92	24764	24683.3	43.68
51	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24808	24662.53	65.95	24731	24665.37	34.7	24790	24681.97	49.91	24747	24658.4	48.67
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24742	24655.17	49.91	24767	24664.9	48.45	24754	24658.63	51.39	24746	24671.27	47.59
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24742	24655.17	49.91	24767	24664.9	48.45	24754	24658.63	51.39	24746	24671.27	47.59
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24742	24655.17	49.91	24767	24664.9	48.45	24754	24658.63	51.39	24746	24671.27	47.59

Table A.2328: f_{737_355} : basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24737	24662.73	44.97	24747	24639.5	56.87	24752	24672.57	49.29	24776	24660.43	50.57
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24759	24667.47	51.05	24771	24656.47	51.22	24728	24664.8	39.58	24747	24655.83	41.04
51	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24782	24673.73	50.69	24791	24669.97	50.42	24744	24664.77	52.91	24746	24655.37	44.26
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24777	24664.43	53.11	24746	24674.87	36.95	24795	24653.17	57.01	24746	24653.8	46.42
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24777	24664.43	53.11	24746	24674.87	36.95	24795	24653.17	57.01	24746	24653.8	46.42

Table A.2329: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24753	24667.9	54.58	24771	24682.13	50.59	24762	24668.57	53.11	24784	24665.27	51.19
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24729	24661.23	40.52	24744	24670.93	41.89	24788	24661.23	48.81	24754	24669.67	41.53
51	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24747	24667.6	49.15	24788	24678.7	46.57	24781	24663.57	53.57	24734	24666.8	46.16
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24745	24664.7	49.48	24811	24683.17	62.38	24812	24659	53.61	24736	24649.9	41.68
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24745	24664.7	49.48	24811	24683.17	62.38	24812	24659	53.61	24736	24649.9	41.68

Table A.2330: f_{737_355} : basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24770	24680.73	38.89	24744	24665.7	55.27	24752	24660.63	59.78	24772	24673.63	46.01
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24752	24663.53	50.09	24727	24665.1	38.52	24771	24647.43	62.5	24778	24664.53	54.67
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24763	24674.6	47.46	24770	24665.4	53.88	24800	24659.97	49.22	24746	24662	54.21
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24775	24683.23	49.99	24730	24671.83	38.58	24767	24679.8	42.61	24760	24675.63	53.21
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.2331: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24809	24674.27	43.08	24787	24666.63	43.53	24750	24659.13	57.33	24796	24681.93	53.35
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24727	24646.43	41.62	24742	24662.17	45.47	24771	24656.37	59.25	24750	24666.93	45.65
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24778	24664.87	53.45	24755	24674.7	51.6	24775	24657.97	49.92	24729	24642.2	48.06
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24749	24661.1	46	24778	24668.43	44.53	24791	24672.3	52.43	24757	24665.63	49.5
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.2332: f_{737_355} : basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24757	24675.83	47.13	24732	24657.53	41.06	24720	24640.67	46.92	24754	24657.37	43.04
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24739	24651.23	53.09	24732	24652.4	45.58	24759	24657.27	56.2	24751	24675.67	32.95
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24782	24672.13	54.39	24782	24672.13	54.39	24766	24673.33	52.29	24797	24667.97	61.86
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24754	24674.3	41.95	24754	24674.3	41.95	24757	24650.8	53.14	24734	24661.07	34.91
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.2333: f_{737_355} : transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48003	47857.47	99.4	47998	47840.37	91	47965	47832.73	69.6	47964	47815.27	76.6
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47997	47846.03	83.05	47970	47854.77	63.47	47983	47837.47	66.1	47994	47866.53	59.53
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	47959	47815.17	67.55	47973	47863.53	67.3	48090	47831.73	108.29	47999	47810	102.62
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48012	47852.37	88.23	48002	47834.47	75.25	47957	47856.5	71.38	47979	47846.3	79.58
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2334: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47970	47857.6	61.56	47974	47860.57	83.4	47985	47841.37	83.33	48016	47857.93	80.98
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48057	47894.67	84.9	47986	47856.03	77.18	48017	47836	76.2	48025	47848.67	70.98
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	48067	47877.27	70.49	48067	47868.37	89.96	47960	47867.07	67.08	48024	47849.87	72.61
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48042	47865.43	71.56	48096	47840.37	97.09	48030	47855.27	79.85	48029	47847.23	90.2
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2335: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47993	47850.57	75.47	48010	47877.1	74.91	48003	47828.13	114.68	48041	47867.13	74.19
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47982	47856.47	81.14	48081	47850.5	73.37	48033	47860.53	87.26	47993	47858.43	86.78
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	48059	47876	88.89	47978	47843.5	76.05	47970	47867	63.03	47996	47857.13	84.33
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48016	47851.97	74.44	47948	47848.83	67.03	48029	47825.8	63.68	48027	47845.27	96.44
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2336: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48033	47858.03	76.76	48077	47848.13	100.18	47967	47832.2	79.98	47971	47849.3	83.01
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48000	47861.3	84.69	48025	47861.37	72.3	48032	47823.83	101.51	48043	47863.1	87.03
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	48051	47907.73	77.27	47993	47864.2	76.6	47960	47831.37	75.98	48098	47871.6	92.92
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48021	47851.93	80.68	47990	47861.6	68.72	47940	47824.3	60.56	47979	47849.33	73.33
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2337: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48067	47865.93	79.66	47977	47860.63	76.74	47978	47866.5	67.57	47976	47854.8	59.08
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47965	47854.07	64.58	47957	47855.57	70.13	48090	47887.67	82.34	47966	47838.6	63.15
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	48092	47864.67	79.98	48092	47864.67	79.98	48112	47844.97	110.85	47945	47840.17	60.56
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47995	47860.03	93.25	47990	47844.83	80.31	48015	47871.93	64.9	48039	47866.63	91.73
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2338: f_{1343_354} : basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48002	47844.03	68.81	48002	47844.03	68.81	47998	47865.57	70.59	48008	47838.6	81.28
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47964	47864.73	63.01	47964	47864.73	63.01	47983	47848.3	68.07	47998	47858.77	61.59
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
51	20	rnd	48035	47861	70.01	48035	47861	70.01	47962	47856.27	61.44	47942	47832.03	60.48
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48042	47841.27	77.04	48042	47841.27	77.04	47976	47809.13	85.75	47991	47810.1	89.97
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2339: f_{1343_354} : transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56093	55893.87	103.21	56148	55945	80.61	56182	55942.17	98.7	56047	55916.13	85
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56152	55916	105.66	56131	55959.53	72.93	56110	55936.77	76.84	56051	55898.37	77.95
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56065	55928.83	83.98	56104	55955.53	72.05	56120	55945.33	80.11	56077	55903.77	83.29
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56030	55909.7	59.99	56057	55941.67	87.74	56083	55909.87	72.49	56168	55943.4	116.23
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.2340: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56133	55944.5	86.47	56108	55940.9	94.81	56055	55922.33	79.46	56131	55911.13	113.25
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56124	55930.8	81.75	56130	55927.27	102.67	56098	55902.5	89.02	56205	55937.6	104.6
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56100	55935.07	82.69	56086	55939.1	83.46	56147	55900.13	85.57	56088	55925.9	71.94
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56151	55970.2	79.4	56144	55959.33	88.91	56105	55913.97	85.75	56045	55929.27	67.48
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.2341: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56139	55909.33	104.41	56107	55949.2	80.46	56020	55898.47	69.87	56155	55955.43	91.27
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56114	55947.03	86.19	56147	55923.97	84.33	56086	55908.3	84.58	55996	55914.43	64.7
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56108	55933.53	89.43	56092	55926.57	82.01	56091	55914.23	75.41	56109	55929.4	102.67
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56120	55946.63	82.67	56170	55908.63	89.4	56083	55945.7	60.2	56137	55959.2	78.54
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.2342: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56168	55962.37	104.1	56088	55941.73	88.05	56080	55927.8	74.91	56125	55936.5	96.18
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56172	55960.07	92.73	56066	55931.37	76.16	56083	55955.5	81.91	56029	55916	87.14
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56099	55953.03	78.58	56098	55965	83.41	56168	55952.97	96.98	56068	55935.03	84.74
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56099	55933.73	76.18	56177	55936	89.32	56073	55933.33	80.87	56092	55925.3	73.22
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.2343: *f1577_354*: transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56143	55942.57	98.83	56139	55931.73	78.41	56100	55948.57	85.87	56075	55925.97	87.59
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56069	55937.1	100.55	56076	55938.93	75.2	56077	55947.6	69.34	56159	55938.77	86.67
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56059	55947.2	70.21	56059	55947.2	70.21	56060	55940.7	70.49	56136	55945.4	84.8
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56146	55944	88.23	56146	55942.13	75.78	56175	55940	97.49	56091	55929.03	98.32
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.2344: *f1577_354*: basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56123	55919.67	87.96	56123	55919.67	87.96	56129	55913.2	84.72	56070	55951.27	71.9
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56195	55923.87	111.28	56195	55923.87	111.28	56103	55914.03	84.23	56053	55928.33	69.87
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56193	55940.7	96.72	56193	55940.7	96.72	56091	55940.33	90.3	56061	55941.63	69.33
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56062	55915.77	74.41	56062	55915.77	74.41	56074	55928.83	69.66	56115	55956.57	79.61
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.2345: *f1577_354*: transRRGA+IM – Suspected Optimal is 57373

Results With Post Optimization and No Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47328	47223.07	62.12	47343	47206.77	61.74	47394	47211.87	80.39	47344	47225.17	77.3
		2op	47367	47307.3	29.62	47359	47280.23	21.13	47274	47274	0	47274	47274	0
	50	rnd	47337	47228.8	72.62	47443	47284.9	62.51	47336	47210.63	75.73	47321	47177.3	66.83
51	20	2op	47399	47329.33	29.56	47368	47305	30	47325	47275.7	9.31	47274	47274	0
		rnd	47345	47230.7	74.53	47421	47308.03	53	47338	47206.13	72.12	47341	47208.73	87.12
	50	2op	47395	47316.93	33.89	47412	47335.6	37.79	47365	47279.37	20.61	47274	47274	0
	20	rnd	47322	47245.77	62.29	47442	47333.13	56.8	47386	47245.73	69.47	47359	47243.27	86.58
		2op	47401	47322.47	30.49	47430	47364.13	27.05	47344	47276.33	12.78	47274	47274	0

Table A.2346: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47367	47151.6	112.31	47343	47133.33	141.44	47274	47274	0	47274	47274	0
		2op	47367	47307.3	29.62	47359	47280.23	21.13	47274	47274	0	47274	47274	0
	50	rnd	47313	47137	108.53	47457	47211.37	113.48	47325	47273.73	14.48	47274	47274	0
51	20	2op	47399	47329.33	29.56	47368	47305	30	47325	47275.7	9.31	47274	47274	0
		rnd	47360	47217.77	101.45	47437	47288.87	78.89	47392	47165.53	111.05	47274	47274	0
	50	2op	47395	47316.93	33.89	47412	47335.6	37.79	47365	47279.37	20.61	47274	47274	0
	20	rnd	47342	47214.43	89.46	47497	47325.77	88.15	47358	47168.6	106.91	47274	47274	0
		2op	47401	47322.47	30.49	47430	47364.13	27.05	47344	47276.33	12.78	47274	47274	0

Table A.2347: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47329	47207.83	66.03	47344	47241.63	67.08	47365	47205.9	76.91	47429	47206.93	96.41
		2op	47390	47319.7	34	47360	47283.57	22.98	47274	47274	0	47274	47274	0
	50	rnd	47397	47227.57	51.81	47416	47268.07	77	47345	47172.8	89.31	47310	47174.8	86.64
51	20	2op	47398	47334.07	34.58	47398	47314.33	38.84	47274	47274	0	47274	47274	0
		rnd	47336	47248.33	61.89	47388	47310.8	47.3	47340	47203.67	70.03	47356	47180.4	112.18
	50	2op	47377	47307.37	32.86	47414	47340.7	32.72	47357	47276.77	15.15	47274	47274	0
	20	rnd	47386	47252.1	59.59	47401	47337.93	43.3	47402	47253.6	67.49	47409	47242	77.51
		2op	47408	47322.27	35.97	47426	47366	25	47359	47283.93	22.75	47274	47274	0

Table A.2348: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47359	47179.6	104.28	47318	47126.23	117.36	47274	47274	0	47274	47274	0
		2op	47390	47319.7	34	47360	47283.57	22.98	47274	47274	0	47274	47274	0
	50	rnd	47354	47158.13	115.22	47427	47180.97	116.18	47274	47253.6	67.1	47274	47274	0
51	20	rnd	47332	47202.9	89.83	47422	47280.5	75.52	47348	47170.33	91.64	47274	47274	0
		2op	47377	47307.37	32.86	47414	47340.7	32.72	47357	47276.77	15.15	47274	47274	0
	50	rnd	47322	47190.9	103.69	47484	47355.17	76.06	47369	47148.1	134.14	47274	47271.8	12.05
		2op	47408	47322.27	35.97	47426	47366	25	47359	47283.93	22.75	47274	47274	0

Table A.2349: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47320	47218.1	55.34	47355	47220.3	69.19	47354	47209.63	74.77	47362	47197.83	71.68
		2op	47371	47320.73	25.6	47366	47300.37	30.57	47274	47274	0	47274	47274	0
	50	rnd	47312	47240.9	47.77	47374	47220.6	66.15	47328	47223.47	65.37	47330	47211.03	88.71
51	20	rnd	47407	47336.87	31.21	47401	47315.2	35.65	47274	47274	0	47274	47274	0
		2op	47368	47237.47	67.51	47394	47262.5	68	47320	47183.97	72.58	47399	47213.5	87.51
	50	rnd	47396	47339.3	24.28	47401	47338.33	31.56	47313	47275.3	7.12	47274	47274	0
		2op	47452	47308.57	58.84	47412	47300.4	67.26	47353	47243.83	70.32	47304	47183.93	91.43
		2op	47427	47345.1	29.65	47436	47345.37	44.07	47290	47274.53	2.92	47274	47274	0

Table A.2350: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47381	47230.13	96.13	47330	47182.23	108.84	47274	47265.97	44	47274	47274	0
		2op	47371	47320.73	25.6	47366	47301.17	30.17	47274	47274	0	47274	47274	0
	50	rnd	47433	47252.27	82.69	47387	47236.5	81.8	47274	47252.83	55.15	47274	47274	0
51	20	rnd	47407	47336.87	31.21	47401	47315.2	35.65	47274	47274	0	47274	47274	0
		2op	47374	47291.77	53.36	47372	47280.27	52.95	47419	47240.6	95.12	47274	47274	0
	50	rnd	47390	47341.07	25.94	47408	47337.87	30.87	47313	47275.3	7.12	47274	47274	0
		2op	47417	47315.9	48.49	47474	47303.2	64.41	47367	47204.63	82.47	47274	47274	0
		2op	47443	47348.3	36.4	47436	47334.73	40.48	47290	47274.53	2.92	47274	47274	0

Table A.2351: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151322	151152.63	125.35	151271	151147.33	116.02	151231	151110.33	160.91	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151254	151169.1	51.02	151291	151166.2	60.73	151255	151124.43	146.59	151171	151150.7	3.83
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151279	151120.77	125.61	151216	151149.03	53.11	151291	151149.17	112.13	151228	151151.3	21.59
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151249	151138.93	45.97	151229	151160.2	48.91	151279	151161.67	53.54	151215	151086.2	177.9
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2352: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151224	150938.63	309.59	151256	151153.53	19.35	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151210	150973.53	253.6	151249	151037.9	283.29	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151244	150990.97	295.72	151249	150918.53	355.02	151150	151147.2	15.34	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151254	151102.93	177.62	151295	151061.53	238.86	151227	151117.5	117.12	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2353: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151288	151139.57	118.36	151260	151139.43	113.88	151220	151145.6	28.64	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151272	151151.3	47.2	151237	151156.8	51.07	151226	151121.77	149.72	151150	151149.8	1.1
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151262	151142.3	117.27	151293	151153.13	64.68	151229	151087.33	184.83	151259	151153	34.39
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151236	151140.43	47.58	151249	151160.63	43.71	151273	151173.67	47.23	151223	151125.5	110.01
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2354: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151275	151065.8	202.88	151245	151128.6	108.42	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151220	150989.1	280.14	151267	151039.07	309.08	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151280	151023.7	289.64	151306	151071	235.96	151170	151129.17	117.94	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151233	151044.47	209.06	151237	151052.37	266.35	151172	151046.43	256.19	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2355: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151241	151159.63	44.85	151263	151159.03	49.54	151228	151133.9	107.77	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151266	151165.7	46.99	151217	151126.1	104.71	151297	151119.27	178.83	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151240	151146.23	49.16	151245	151157.07	45.82	151256	151169.07	57.18	151150	151149.27	4.02
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151299	151167.47	51.98	151259	151159.23	58.32	151222	151151.7	43.52	151295	151147.47	38.1
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2356: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151265	151124.2	156.37	151255	151095.3	202.53	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151266	151083.4	283.29	151227	150968.7	306.24	151150	151150	0	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
51	20	rnd	151290	151109.23	210.85	151290	151112.23	210.97	151249	151105.17	170.81	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0
	50	rnd	151228	151081.07	207.51	151235	151076.93	207.62	151266	151093.37	218.88	151150	151150	0
		2op	151150	151150	0	151150	151150	0	151150	151150	0	151150	151150	0

Table A.2357: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167325	166955.17	205.51	167284	166868.83	248.66	167320	166836.37	259.86	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167309	166965.7	180.76	167416	167042.27	237.21	167304	166918.57	180.5	167256	166586.87	187.24
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167332	166960.43	228.42	167331	167031.3	182.67	167335	166817.03	263.63	167127	166653.47	228.62
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167363	166965.77	172.33	167351	167124.5	175.11	167282	166869.1	247.93	167235	166857.63	212.57
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2358: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167083	166465.67	294.78	166879	166513.23	271.97	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166980	166376	300.81	166903	166410.9	325.13	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167096	166520.43	344.98	166930	166509.13	287.68	166880	166536.73	153.41	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166921	166505.13	307.56	166768	166518.6	227.41	166911	166501.33	291.39	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2359: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167387	166917.97	218.43	167216	166874.57	199.53	167287	166731.03	229.52	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167403	166940.03	232.47	167337	166942.97	216.17	167350	166823.83	198.99	167018	166578.4	143.63
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167395	166992.37	185.38	167318	167002.63	203.72	167292	166878.47	208.76	167126	166740	227.78
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167314	166955.27	193.81	167404	167183.33	141.43	167284	166907.6	217.01	167156	166867.97	194.35
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2360: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166930	166544.23	300.66	166749	166470.63	256.37	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166976	166466.13	344.2	166876	166408	317.92	166520	166520	0	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	166952	166532.33	267.19	166967	166482.87	267.92	166751	166491.67	152.46	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	166964	166578.67	336.85	167015	166527.3	314.2	166894	166541.67	217.32	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2361: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167318	167006.8	203.65	167301	166973.4	193.54	167368	166960.43	219.45	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167360	167025	183.2	167395	167012.03	227	167321	166876.83	170.75	166815	166529.83	53.86
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167330	167008.57	155.69	167315	167009.43	169.14	167234	166925.63	200.5	166974	166549.3	111.57
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167373	167032.73	199.07	167413	167015.2	192.34	167363	166940.4	227.5	167245	166841.43	222.73
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2362: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166934	166528.37	295.43	166921	166517.4	318.91	166773	166526.6	49.18	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167029	166545.23	326.64	166862	166544.97	217.39	166929	166544.03	81.85	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
51	20	rnd	167068	166723.37	199.72	167124	166727.47	199.16	167149	166739.63	193.94	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0
	50	rnd	167016	166713.73	187.05	167016	166715.1	187.35	166922	166696.03	179.51	166520	166520	0
		2op	166520	166520	0	166520	166520	0	166520	166520	0	166520	166520	0

Table A.2363: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163162	162964	82.69	163168	162983	90.22	163195	162993.23	89.87	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163191	162980.97	85.15	163085	162956.7	69.52	163112	162984.5	79.44	163118	162973.13	71.26
51	20	rnd	163151	162984.43	88.72	163150	163015.8	69.48	163093	162972.6	73.01	163182	162988.37	71.15
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163078	162971.73	65.78	163073	162981.23	66.59	163126	162949.43	92.28	163120	162980.43	70.72
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2364: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163097	162964.47	81.77	163080	162929.63	89.01	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163171	162939.33	118.26	163114	162934.1	84.08	163089	162980.57	50.75	162988	162988	0
51	20	rnd	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163106	162983.1	75.81	163120	162955.2	111.5	163086	162917.43	101.17	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2365: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163148	162965.5	68.67	163119	162971.9	75.51	163068	162973.47	45.34	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163098	162965.7	64.09	163095	162948	70.81	163100	162993.53	71.77	163083	162990.17	29.74
51	20	rnd	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163099	162990.73	76.52	163182	162995.73	73.74	163133	162968.67	70.55	163083	162969.97	56.31
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2366: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163070	162932.63	94.57	163100	162920.9	117.33	162988	162988	0	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163067	162925.13	113.67	163068	162937.23	102.08	163082	162960.2	81.58	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163120	162971.23	65.97	163085	162952.1	71.66	163092	162950.57	71.54	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163124	162945.23	109.16	163167	162943.3	86.03	163075	162940.57	108.62	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2367: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163134	162978.3	80.52	163117	162984.67	79.61	163118	162947.5	78.29	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163124	162973.1	87.98	163093	162997.8	56.61	163144	162984.17	77.96	163065	162961.67	114.09
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163161	162984.13	75.67	163133	162975.77	66.1	163154	162991.3	82.11	163104	162981.7	36.81
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163118	162985.87	71.3	163108	162979.93	91.08	163143	162997.37	64.08	163177	162976.97	111.1
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2368: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163047	162938.13	99.39	163116	162950.73	91.84	163056	162912.03	86.1	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163075	162970.9	64.49	163101	162944.57	78.29	163081	162948.13	78.24	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
51	20	rnd	163043	162914.07	85.06	163043	162914.07	85.06	163047	162929.43	100.07	162988	162988	0
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0
	50	rnd	163150	162967.63	89	163150	162967.63	89	163144	162920.8	93.27	162995	162986.37	10.35
		2op	162988	162988	0	162988	162988	0	162988	162988	0	162988	162988	0

Table A.2369: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179884	179702.27	91.18	179868	179681.67	88.27	179865	179629.23	78.58	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179973	179737.87	97.25	179892	179717.17	94.65	179862	179682.43	102.86	179822	179620.43	44.13
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179881	179721.77	85.33	179893	179678.23	111.08	179921	179699.43	100.01	179866	179653	86.12
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179846	179703.67	74.2	179961	179702.6	121.55	179869	179711.2	73.49	179975	179703.97	96.23
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2370: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179812	179677.5	88.01	179815	179690.97	76.49	179607	179607	0	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179878	179699.8	92.46	179860	179671.17	101.55	179839	179625.2	78.25	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179922	179737.67	99.98	179841	179684.13	97.48	179856	179686.1	79.61	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179874	179707.1	86.07	179970	179709.27	120.48	179901	179686.87	90.38	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2371: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179865	179702.3	101.36	179891	179687.47	96.02	179937	179673.83	102.83	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179885	179702.5	87.81	179920	179702.07	87.97	179898	179707.27	87.84	179734	179615.7	53.58
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179913	179738.73	87.62	179952	179730.4	92.83	180023	179712.1	102.42	179785	179645.03	55.96
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179949	179706.1	104.97	179836	179674.03	89.98	179931	179711.4	82.88	179932	179705.83	98.77
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2372: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179843	179698.07	83.7	179907	179688.4	91.56	179607	179607	0	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179870	179732.7	74.4	179892	179698.73	85	179872	179655.6	71.1	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179927	179724.2	85.27	179900	179686.1	111.9	179888	179681.8	86.82	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179833	179681.07	92.49	179848	179702.13	84.07	179920	179682.33	85.62	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2373: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179831	179719	80.84	179996	179707.37	90.83	179910	179710.17	85.27	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179854	179739.67	62.47	179911	179696.83	124.46	179854	179703.67	89.17	179759	179612.07	27.75
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179843	179709.4	89.13	179841	179686.77	81.47	179959	179708.97	82.57	179733	179613.83	26.73
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179845	179687.6	85.28	179877	179694.7	102.34	179952	179712.87	103.4	179879	179657.97	76.54
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2374: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179816	179685.17	86.78	179882	179677.47	89.57	179828	179676.57	87.56	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179901	179693.7	103.67	179958	179710.83	110.59	179872	179665.33	94.3	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
51	20	rnd	179879	179695.03	85.52	179879	179695.03	85.52	179858	179678.13	98.57	179607	179607	0
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0
	50	rnd	179916	179710.17	93.31	179916	179710.17	93.31	179827	179686.13	90.2	179642	179609.13	8.16
		2op	179607	179607	0	179607	179607	0	179607	179607	0	179607	179607	0

Table A.2375: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343123	342867.97	134.26	343158	342851.93	215.75	343012	342805.37	114.07	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343171	342878.6	134.05	343131	342833.07	243.58	343099	342755.8	290.48	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343011	342846	122.13	343203	342882.63	168.5	343022	342814.7	173.26	342915	342771.93	34.32
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343120	342896.7	96.94	343118	342872.3	137.17	343084	342881.3	179.5	343110	342726.5	234.13
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2376: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343090	342627.93	408.14	342763	342763	0	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343130	342584.93	446.18	342835	342694.9	241.36	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343107	342631.63	402.65	343032	342629.67	374.91	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342996	342643.97	288.44	343092	342626.77	384.89	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2377: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343109	342870	117.2	343163	342796.17	306.15	343051	342799.57	106.84	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343100	342903.2	107.83	343049	342828.03	216.63	343173	342797.07	225.63	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
51	20	rnd	343049	342871.6	102.32	343156	342873.77	154.27	343126	342818.87	208.11	343007	342786.9	66
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343181	342884.13	133.46	343066	342787.4	276.02	343136	342845.23	256.17	343090	342820	223.44
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2378: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343093	342585.37	392.07	342763	342763	0	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343091	342580.7	393.26	342861	342717.93	190.04	342763	342763	0	342763	342763	0
51	20	rnd	343064	342596.8	428.76	343168	342543.17	452.8	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343111	342806	235.38	343034	342764.27	252.67	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2379: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343125	342898.8	104.66	343129	342886.23	152.23	343091	342732.27	283.51	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343147	342945.97	91.11	343169	342926.93	94.31	343118	342760.43	244.79	342763	342763	0
51	20	rnd	343118	342905	141.81	343092	342881.43	154.54	343208	342836.2	264.59	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	343114	342874.8	108.34	343126	342884.17	100.63	343089	342893.83	133.37	342936	342760.27	70.6
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2380: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343140	342504.6	458.31	343140	342511.6	464.4	342763	342763	0	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
	50	rnd	342994	342546.4	432.62	342994	342524.03	428.31	342763	342763	0	342763	342763	0
51	20	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
		2op	343079	342748.17	305.22	343079	342748.17	305.22	343067	342714.33	229.44	342763	342763	0
	50	rnd	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0
		2op	343074	342683	321.63	343074	342683	321.63	343073	342567.6	373.35	342763	342763	0
		2op	342763	342763	0	342763	342763	0	342763	342763	0	342763	342763	0

Table A.2381: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226223	225146.3	706.13	226756	225249.67	895.19	226217	224996.4	643.26	226451	225242.47	790.03
		2op	226435	225692.5	250.67	226609	225591.47	226.61	225517	225517	0	225517	225517	0
	50	rnd	226629	224966.53	876.61	226304	225159.87	611.93	226616	225261.5	622.12	227086	225248.2	898.4
51	20	rnd	226415	225765.93	282.23	226281	225709.87	276.35	225517	225517	0	225517	225517	0
		2op	226717	225011.93	778.71	226523	225191.5	604.25	226529	225150.3	700.12	226476	225048.53	676.18
	50	rnd	226364	225742.3	325.1	226698	226053.63	403.4	226370	225592.23	228.89	225517	225517	0
	20	rnd	226542	225019.7	902.9	227430	225435.2	834.72	226510	225319.83	825	226693	225005.33	850.79
		2op	226768	225740.7	388.93	226610	226198.87	228.9	226537	225579.07	284.59	225517	225517	0

Table A.2382: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226996	225740.83	705.6	226669	225473.03	675.88	226732	225243.57	791.22	226468	225211	738.34
		2op	226683	225923.1	377.65	226713	225731.23	397.41	225517	225517	0	225517	225517	0
	50	rnd	227332	225759.27	640.3	226934	225628.8	684.19	226798	225190.73	780.58	227269	225514.2	941.39
51	20	rnd	226563	225917.97	345.71	226891	225834.47	448.71	225517	225517	0	225517	225517	0
		2op	226940	225933.47	610.29	227481	225965	618.34	226681	225172.17	836.09	226622	225269.9	790.65
	50	rnd	226875	225828.8	362.86	226750	226117.4	363.06	226212	225560.93	167.46	225517	225517	0
	20	rnd	226941	225835.17	568.15	227096	226134.87	616.76	226906	225320.6	723.96	226606	225125.97	887.35
		2op	226787	225978.47	320.93	226647	226165.17	220	226317	225583.57	205.49	225517	225517	0

Table A.2383: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226793	225139.63	1001.81	226537	225078.2	852.16	227010	225286.23	869.92	226654	225032	824.1
		2op	226736	225879.97	351.65	226291	225677.63	264.55	225517	225517	0	225517	225517	0
	50	rnd	226635	225297.83	592.26	226531	225231.33	670.52	227570	225494.2	831.67	226312	224948.63	929.61
51	20	rnd	226844	225861.63	326.95	226879	225775.93	391.87	226233	225540.87	130.72	225517	225517	0
		2op	226733	225230.2	829.31	226558	225145.87	625.6	227135	225109.67	734.67	226609	224999.33	851.49
	50	rnd	226624	225759.37	343.29	226690	225967.23	363.35	226840	225565.07	241.63	225517	225517	0
	20	rnd	226840	225052.83	919.62	226399	225157.37	848.99	226733	225232.13	824.8	226723	225197.03	752.23
		2op	226314	225776.33	291.33	226599	226212.7	236.64	226512	225692.87	304.03	225517	225517	0

Table A.2384: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226800	225920.87	598.13	226883	225637.63	643.67	226884	225486.57	681.11	226456	225038.6	690.35
		2op	226795	225918.5	404.95	226691	225629.57	314.95	225517	225517	0	225517	225517	0
	50	rnd	227185	225638.7	727.17	226792	225441.43	906.66	226874	225221.33	865.92	226134	225097.23	671.09
51	20	rnd	226542	225848.17	313.02	226623	225711.13	328.73	225517	225517	0	225517	225517	0
		2op	226995	225844.63	645.26	226955	225913.83	733.8	227383	225342.3	658.96	226387	224877.07	969.09
	50	rnd	226691	225927.23	374.45	226691	226024.83	386.61	225517	225517	0	225517	225517	0
	20	rnd	227188	225838.83	796.39	227309	226324.43	525.01	227057	225484.07	832.05	226633	225154.33	873.97
		2op	226217	225780.7	262.57	227141	226211	246.11	226789	225608.03	293.46	225517	225517	0

Table A.2385: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226265	225139.13	907.65	226527	225163.07	818.68	226664	225134.2	705.25	226698	224937.13	928.79
		2op	226619	225921.17	361.33	226611	225848.3	399.77	225517	225517	0	225517	225517	0
	50	rnd	226916	225157.43	794.01	226946	225065.6	977.93	226991	225203.4	759.85	226308	225023.83	788.33
51	20	rnd	226297	225872.63	313.82	226824	225974.77	345.74	225517	225517	0	225517	225517	0
		2op	226887	226087.6	377	226887	226109.17	372.31	226601	225643.23	286.56	225517	225517	0
	50	rnd	227180	225186.4	1068	226555	225430.23	678.3	226484	225193.8	721.83	226480	225165.97	649.12
	20	rnd	227229	225319.93	826.71	226886	225123.2	1034.48	226318	224949.2	814.2	226531	225310.23	714.46
		2op	226424	225893.7	323.94	226404	225992.37	282.95	226181	225632.73	237.05	225517	225517	0

Table A.2386: *bx842596_4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226720	225878.6	624.73	227184	225632.07	769.49	226376	225252.13	637.37	226380	225086.17	767.64
		2op	226540	225912.63	394.07	226504	225831.3	392.91	225517	225517	0	225517	225517	0
	50	rnd	227396	225942.73	657.86	226745	225734.5	636.99	226885	225224.7	760.07	226501	225059.43	923.67
51	20	rnd	226902	226036.7	330.64	226902	225962.53	361.27	225517	225517	0	225517	225517	0
		2op	227245	226027.97	587.97	227044	225950.6	537.92	226836	225491.23	661.73	226772	225165.97	702.34
	50	rnd	226912	226229.83	352.59	226912	226190.63	338.16	226671	225590.73	280.88	225517	225517	0
	20	rnd	227521	226158.47	648.17	227082	225969.1	670.63	226785	225325.3	769.89	226709	225336.23	651.35
		2op	226628	226179.2	201.25	227025	226234.4	324.28	226758	225603.5	277.92	225517	225517	0

Table A.2387: *bx842596_4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440918	438629	1318.13	441469	438664.9	1332.21	442079	438477.23	1231.64	441312	438675.77	1234.51
		2op	438680	437898.77	407.68	438642	437497	284.6	437398	437398	0	437398	437398	0
	50	rnd	440961	438194.43	1246.16	440185	438430.83	1093.63	440555	438831.67	1175.19	440145	438339.8	1030.8
51	20	rnd	438887	437776.27	381.84	438278	437560.6	288.92	437398	437398	0	437398	437398	0
		2op	440731	438155.2	1211.97	440331	437968.07	1240.61	440297	438560.2	1280.21	440544	438110.77	1305.49
	50	rnd	438599	437765.77	375.07	438735	437604.47	363.02	437775	437410.57	68.83	437398	437398	0
	20	rnd	440419	438128	1275.49	441245	438556.2	1341.44	440917	438656.43	1118.17	441191	438825.5	1259.97
		2op	438507	437879.73	308.96	439035	437880.13	425.06	438297	437455.4	218.67	437398	437398	0

Table A.2388: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441370	439335.23	1230.34	441125	438779.9	1096.1	440394	438436.23	1329.59	440646	438355.07	1545.38
		2op	438680	437898.77	407.68	438642	437497	284.6	437398	437398	0	437398	437398	0
	50	rnd	442903	439955.4	1265.9	440792	438878.2	959.15	440614	438473.77	1252.12	440874	438311.43	1338.47
51	20	rnd	438887	437776.27	381.84	438278	437560.6	288.92	437398	437398	0	437398	437398	0
		2op	441278	438950.1	1307.56	441913	439226.23	1063.16	440790	438396.57	1013.73	440361	438273.67	1262.72
	50	rnd	438599	437765.77	375.07	438735	437604.47	363.02	437775	437410.57	68.83	437398	437398	0
	20	rnd	441176	439177	1153.94	442548	439821.53	1189.61	440536	438812.77	1141.29	440197	438220.8	1002.45
		2op	438507	437879.73	308.96	439035	437880.13	425.06	438297	437455.4	218.67	437398	437398	0

Table A.2389: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441351	438668.23	1013.9	440984	438451.27	1320.04	440118	437911.5	1366.12	440021	438344.5	1234.66
		2op	438989	437979.8	477.85	438417	437454.47	219.59	437398	437398	0	437398	437398	0
	50	rnd	440850	438402.37	1208	441680	438671.1	1321.64	441063	438393.83	1376.42	440051	437912.63	1163.38
51	20	rnd	438962	438031.43	425.33	438971	437554.67	387.13	437398	437398	0	437398	437398	0
		2op	441685	438500.1	1376.79	440565	438375.43	1277.26	440377	438126.37	1154.28	440247	437981.77	1429.8
	50	rnd	438548	437765.37	382.13	439390	437702.33	490.22	438357	437429.97	175.09	437398	437398	0
	20	rnd	441622	438744.37	1111.44	440908	438393.37	1245.36	441200	438677.77	1105.43	439938	437871.27	1325.81
		2op	438576	437859.53	307.65	438527	437628.3	339.94	437825	437412.23	77.96	437398	437398	0

Table A.2390: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441987	439523.83	1220.36	441030	438698.9	1362.33	440863	438490.27	1225.79	440676	438381.8	1197.4
		2op	438989	437979.8	477.85	438417	437454.47	219.59	437398	437398	0	437398	437398	0
	50	rnd	441798	439196.53	1173.04	441734	438967.27	1059.51	440772	438543.47	1177.38	440469	438434.07	989.61
51	20	2op	438962	438031.43	425.33	438971	437554.67	387.13	437398	437398	0	437398	437398	0
		rnd	441210	439664.73	1041.71	441840	439125.57	1346.13	441451	438988.47	1308.57	440889	438600.53	1244.5
	50	2op	438548	437765.37	382.13	439390	437702.33	490.22	438357	437429.97	175.09	437398	437398	0
	20	rnd	442246	439762.23	1183.1	441668	440032.73	1047.09	441119	438730.87	1253.88	440396	438418.2	1077.26
		2op	438576	437859.53	307.65	438527	437628.3	339.94	437825	437412.23	77.96	437398	437398	0

Table A.2391: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	440597	438306.7	1310.83	440494	438604.3	967.29	441978	438503.93	1117.13	440304	437982.37	1291.64
		2op	438481	437936.3	316.67	438481	437751.67	340.4	437398	437398	0	437398	437398	0
	50	rnd	440755	438672.93	1195.54	441008	438401.87	1613.41	441365	438503.73	1436.87	441129	438344.37	1304.22
51	20	2op	438750	438070.27	360.37	438533	437920.2	356.93	437398	437398	0	437398	437398	0
		rnd	441182	438845.6	1329.26	441231	438923.9	1363.58	440925	438557.57	1344.76	440166	438301.8	929.55
	50	2op	439240	437945.6	372.02	438664	437881.3	306.67	437398	437398	0	437398	437398	0
	20	rnd	441432	438879.67	1199.45	441432	438542.83	1513.11	441429	438650.3	1323.07	440472	438328.1	1180.34
		2op	438806	437967.03	330.47	438989	437950.27	369.01	438193	437440	165.61	437398	437398	0

Table A.2392: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441543	439510.7	1251.26	441407	439517.77	1319.53	441532	438532.9	1635.93	441010	438329.03	1551.12
		2op	438481	437936.3	316.67	438481	437751.67	340.4	437398	437398	0	437398	437398	0
	50	rnd	441310	439445.43	1034.3	441648	439456.83	1116.93	440169	438402.27	1285.38	440042	438236.13	1041.71
51	20	2op	438750	438070.27	360.37	438533	437920.2	356.93	437398	437398	0	437398	437398	0
		rnd	442452	439947.1	1117.44	442439	439924.13	1098.58	441367	438398.27	1556.03	440312	438623.57	1300.69
	50	2op	439695	438061.97	536.42	439695	437995.03	504.24	437398	437398	0	437398	437398	0
	20	rnd	441900	439537	1200.92	441900	439545.57	1121.74	441712	439339.63	1160.32	440590	438385.07	1244.08
		2op	440178	438143.67	637.83	439642	438110.93	598.66	438193	437440	165.61	437398	437398	0

Table A.2393: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115876	114810.13	502.7	115553	114666.33	450.23	116248	114811.33	564.26	115420	114584.37	517.36
		2op	116327	115525.47	221.84	115802	115485.33	151.71	115514	115514	0	115514	115514	0
	50	rnd	115431	114772.17	426.02	115621	114661.17	423.71	115768	114871.47	532.51	115601	114849.4	560.44
51	20	rnd	115767	115456.6	186.34	116023	115537.6	200.88	115547	115501.8	72.39	115514	115514	0
		2op	115953	114741.63	638.13	115653	114806.33	595.07	115619	114648.23	488.37	115930	114819.53	502.83
	50	rnd	115633	115437.33	123.2	115893	115570.1	177.56	115633	115411.53	142.09	115514	115514	0
	20	rnd	115690	114774.6	475.75	115446	114751.17	456.26	115654	114830.5	497.95	115717	114705.07	560.4
		2op	115803	115507.73	142.89	116424	115750	237.71	115858	115508.63	147.62	115514	115514	0

Table A.2394: $j02459_7$: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115847	115144.17	452.49	115993	114966.17	455.82	115744	114827.03	664.09	115808	114876.57	555.67
		2op	116264	115651.47	169.45	115760	115544.7	58.64	115514	115514	0	115514	115514	0
	50	rnd	116082	115246.43	484.48	116255	115543.77	456.64	116177	114927.83	594.07	115754	114670.17	543.26
51	20	rnd	115956	115612.3	114.35	116049	115674.1	182.68	115514	115514	0	115514	115514	0
		2op	115893	115069.53	527.66	116373	115382.3	480.39	115957	115001.77	553.59	115753	114843.43	563.73
	50	rnd	116023	115649.67	155.73	116406	115895.97	174.43	115639	115524.9	33.51	115514	115514	0
	20	rnd	116164	115122.8	542.66	116516	115670.27	478.33	116084	115020.03	486.64	115490	114664.33	445.38
		2op	115990	115640.97	116.61	116348	115999.6	149.36	115819	115559.27	90.85	115514	115514	0

Table A.2395: $j02459_7$: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115650	114856.67	517.37	115592	114918.4	501.3	115774	114999.83	392.1	115283	114585.63	557.15
		2op	115647	115496.53	132.75	115690	115491.97	110.25	115514	115510.53	18.99	115514	115514	0
	50	rnd	115678	114754.07	457.41	115604	114849.77	502.5	115742	114600.03	499.21	115724	114705.97	525.73
51	20	rnd	116039	115483.67	209.74	116035	115553.33	242.13	115670	115509.27	79.91	115514	115514	0
		2op	115911	114890.87	587.04	115907	114797.63	577.49	115503	114763.7	509.22	116175	114743.03	640.99
	50	rnd	115933	115472.4	181.3	116399	115691.43	283.42	115654	115493.9	105.78	115514	115514	0
	20	rnd	115862	114884.67	534.74	115233	114636.3	490.59	115908	114864.9	572.34	115851	114823.7	513.33
		2op	116025	115445.3	202.6	116438	115787.1	169.6	116023	115499.03	162.76	115514	115514	0

Table A.2396: $j02459_7$: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115961	115251.23	465.95	116014	114912.7	524.44	115976	114843.4	494.71	115737	114668.2	426.4
		2op	115952	115616.1	121.5	115998	115558.23	115.55	115514	115514	0	115514	115514	0
	50	rnd	116064	115341.33	424.47	115908	115136.5	465.82	115983	114721.67	579.85	115778	114784.53	549.5
51	20	rnd	116123	115657.5	161.98	115933	115589.03	120.34	115514	115514	0	115514	115514	0
		2op	116155	115259.57	551.41	116131	115432.9	459.62	116014	115115.3	627.35	115713	114743.93	547.53
	50	rnd	115970	115645.97	140.12	116166	115861.17	179.95	115790	115526.8	53.47	115514	115514	0
	20	rnd	116188	115253.73	506.75	116551	115688.13	428.58	116026	115164.53	446.61	115847	114743.63	463.18
		2op	116021	115607.63	139.56	116197	115998.43	105.36	115636	115535.63	39.77	115514	115514	0

Table A.2397: *j02459_7*: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115900	114934.47	402.5	116164	114929.4	571.79	115381	114658.13	463.67	115460	114632.77	620.94
		2op	116308	115501.6	213.26	115993	115474.5	180.22	115514	115514	0	115514	115514	0
	50	rnd	116054	114898.67	469.94	116031	114621.17	615.14	115831	114763.43	480.57	115837	114792.47	608.15
51	20	rnd	116067	115508.5	236	116004	115497.63	212.65	115514	115510.93	11.72	115514	115514	0
		2op	116113	115265.23	406.89	116142	115329.8	492.6	115365	114724.63	473.9	115856	114623.7	539.41
	50	rnd	116089	115675.23	265.95	116373	115698.33	348.96	116077	115469.37	180.16	115514	115514	0
	20	rnd	116175	115398.37	539.16	116164	115364.5	429.88	115592	114641.5	534.9	115604	114842.9	548.75
		2op	116176	115823.83	242.1	116176	115711.83	289.05	115645	115487.77	81.48	115514	115514	0

Table A.2398: *j02459_7*: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	116122	115105.17	451.19	116233	115344.93	490.87	115682	114727.33	433.13	115682	114816.4	533.12
		2op	116502	115710.9	267.42	116502	115686	230.38	115514	115514	0	115514	115514	0
	50	rnd	116051	115201.9	390.26	115952	115290.17	425.89	115645	114961.23	392.1	115617	114781.03	453.88
51	20	rnd	116034	115691.03	167.72	115990	115649.07	137.37	115514	115514	0	115514	115514	0
		2op	116075	115397.3	397.81	116044	115392.9	386.29	115990	115108.07	516.83	115913	114669.37	709.08
	50	rnd	116460	115742.13	283.51	116450	115750.13	277.64	116132	115534.6	112.83	115514	115514	0
	20	rnd	116141	115389.13	344.09	116389	115479.93	461.81	116207	115222.77	574.03	116174	114855.43	727.06
		2op	116471	115948.57	307.04	116455	115910.17	320.67	115795	115539.17	67.86	115514	115514	0

Table A.2399: *j02459_7*: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38492	38181.7	174.35	38482	38151.33	220.5	38581	38256.53	240.69	38531	38211.8	225.03
		2op	38423	38356.63	71.86	38437	38410.57	8.83	38557	38305.23	109.24	38224	38224	0
	50	rnd	38559	38177.03	217.62	38527	38169.83	229.28	38580	38145.57	279.67	38588	38197.73	176.85
51	20	rnd	38415	38385.83	42.63	38442	38424.57	14.6	38524	38401.57	39.38	38224	38224	0
		2op	38566	38280.63	196.7	38579	38297.23	175.48	38615	38220.33	249.36	38580	38151.07	275.96
	50	rnd	38418	38380.13	55.48	38442	38424.87	14.38	38418	38403.77	10.63	38409	38259.93	73.25
	20	rnd	38681	38291.27	175.6	38656	38360.9	193.31	38677	38202.77	223.89	38542	38224.7	201.97
		2op	38440	38386.93	42.63	38442	38431.2	13.65	38529	38411.7	23.79	38519	38324.87	92.83

Table A.2400: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38650	38374.8	131.44	38683	38356	120.77	38593	38220.43	162.4	38526	38147.33	234.82
		2op	38442	38361.93	72.29	38442	38411.73	10.5	38557	38305.23	109.24	38224	38224	0
	50	rnd	38585	38357.93	151.71	38699	38434.53	148.35	38548	38313.5	154.56	38534	38166.03	215.66
51	20	rnd	38420	38384.37	44.3	38442	38424.7	14.74	38524	38401.57	39.38	38224	38224	0
		2op	38572	38270.6	193.9	38648	38424.87	116.99	38642	38377.23	178.6	38586	38258.33	229.55
	50	rnd	38437	38387.33	58.92	38472	38432.63	14.75	38418	38403.87	10.74	38409	38259.93	73.25
	20	rnd	38579	38326.77	176.62	38634	38405.8	154.94	38662	38430.53	146.84	38638	38244.97	198.63
		2op	38442	38373.77	61.05	38529	38440.1	19.69	38529	38409.8	23.9	38519	38324.87	92.83

Table A.2401: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38658	38232.1	192.45	38647	38221.33	209.93	38567	38128.33	284.34	38686	38216.17	224.51
		2op	38413	38366	68.07	38441	38412.87	13.73	38441	38271.2	80.57	38224	38224	0
	50	rnd	38485	38125.9	236.6	38649	38198.93	234.3	38563	38228.93	232.99	38619	38200.03	248.5
51	20	rnd	38413	38368.3	65.65	38442	38420.2	13.72	38524	38397.07	37.54	38224	38224	0
		2op	38584	38254.63	233.02	38629	38346.73	208.63	38567	38177.2	222.68	38486	38199.9	182.12
	50	rnd	38436	38375.93	61.48	38442	38420.63	13.49	38432	38405.97	13.59	38411	38253.03	66.24
	20	rnd	38657	38302.53	216.36	38601	38338.27	165.07	38539	38183	231.85	38633	38182	226.91
		2op	38414	38371.17	59.94	38442	38429.7	11.93	38437	38412.03	14.01	38530	38312.9	101.16

Table A.2402: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38662	38327.07	169.46	38690	38423.23	160.36	38664	38245.27	207.07	38537	38174.77	228.22
		2op	38413	38366	68.07	38441	38412.87	13.73	38441	38271.2	80.57	38224	38224	0
	50	rnd	38569	38264.8	182.89	38659	38442	129.52	38644	38322.47	174.19	38518	38177.9	242.61
51	20	2op	38413	38368.3	65.65	38445	38421.23	14.39	38524	38397.07	37.54	38224	38224	0
		rnd	38612	38326.67	180.44	38586	38426.07	116.53	38594	38344.73	188.11	38546	38122.67	249.77
	50	2op	38440	38390.17	59.55	38446	38433.03	12.51	38432	38407.5	13.14	38411	38253.03	66.24
	20	rnd	38572	38334.33	143.74	38666	38410.6	130.7	38636	38389.07	134.22	38492	38227.13	197.37
		2op	38445	38377.6	65.92	38504	38440.07	16.59	38437	38413.77	13.48	38530	38312.9	101.16

Table A.2403: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38650	38377.53	192.77	38573	38274.07	222.5	38634	38120	245.46	38612	38185.97	238.01
		2op	38425	38405.3	8.32	38425	38405.2	8.93	38436	38296.5	90.8	38224	38224	0
	50	rnd	38690	38365	169.54	38647	38302.93	205.03	38535	38181.13	200.91	38571	38214.37	238.86
51	20	2op	38437	38407.23	8.73	38430	38405.03	9.02	38427	38333.67	85.76	38224	38224	0
		rnd	38641	38379.7	142.09	38579	38414.23	112.95	38677	38297	251.16	38553	38152.83	229.71
	50	2op	38442	38420.43	13.86	38442	38438.17	7.55	38432	38393.87	21.42	38224	38224	0
	20	rnd	38663	38469.47	121.64	38652	38491.87	95.78	38586	38247.33	210.49	38687	38171.97	260.43
		2op	38442	38428.23	13.99	38442	38428.27	14.81	38437	38400.2	15.67	38432	38247.33	61.02

Table A.2404: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38690	38386.67	168.99	38621	38388.83	151.41	38663	38230.6	253.63	38655	38185.2	221.33
		2op	38458	38415.2	15.69	38441	38414.57	15.11	38436	38296.5	90.8	38224	38224	0
	50	rnd	38638	38393.47	172.91	38627	38416.4	152.36	38626	38221.27	222.95	38626	38210.33	195.38
51	20	2op	38442	38404.2	40.62	38442	38402.13	36.75	38427	38333.67	85.76	38224	38224	0
		rnd	38589	38325.97	163.55	38633	38347.37	149.23	38667	38307.57	200.75	38573	38214.4	188.94
	50	2op	38442	38422.33	14.66	38442	38439.17	2.52	38437	38398.43	24.31	38224	38224	0
	20	rnd	38567	38346.97	178.75	38639	38341.77	178.93	38523	38237.47	215.27	38491	38126.27	229.08
		2op	38442	38430.13	12.49	38442	38431.57	11.6	38432	38400.5	14.15	38432	38247.33	61.02

Table A.2405: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47910	47600	224.54	47923	47473.93	264.22	47899	47562.3	283.96	47846	47431.87	287.17
		2op	47758	47482.57	160.26	47758	47738.97	51.81	47349	47349	0	47349	47349	0
	50	rnd	47824	47493.63	260.9	47949	47428.83	371.53	47851	47514.47	212.22	47939	47515.83	257.85
		2op	47758	47470.63	160.21	47758	47755.9	4.84	47755	47406.6	131.8	47349	47349	0
51	20	rnd	47878	47486.83	285.96	47957	47599.3	200.77	47820	47494.27	309.7	47939	47512.67	305.14
		2op	47758	47557.33	173.85	47758	47756.57	3.37	47758	47554.53	193.51	47349	47349	0
	50	rnd	48032	47455.63	283.47	47950	47529.37	281.65	47838	47525.13	218.63	47833	47475.07	251.89
		2op	47758	47492.97	148.14	47758	47756.8	1.49	47758	47714.73	101.66	47349	47349	0

Table A.2406: *m15421_6*: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47944	47606.53	234.24	47961	47651.3	168.31	47976	47562.77	346.76	47899	47546.2	261.82
		2op	47758	47498	163.46	47758	47749.5	9.12	47742	47373.5	93.48	47349	47349	0
	50	rnd	48034	47654.6	260.33	48050	47638.93	203.41	47917	47538.73	290.72	47862	47600.7	190.43
		2op	47758	47510.73	170.79	47758	47755.03	6.15	47758	47392.03	107	47349	47349	0
51	20	rnd	47969	47594.77	230.58	48052	47642.8	264.34	47972	47630.7	178.07	48023	47503.47	271.02
		2op	47830	47628.4	166.43	47830	47762.7	18.3	47758	47598.47	178.25	47349	47349	0
	50	rnd	47978	47661.03	185.08	48050	47716.03	198.73	48050	47595	229.28	47849	47528.27	252.6
		2op	47758	47507.4	176.35	47830	47750.17	49.64	47758	47720.67	85.75	47742	47362.1	71.75

Table A.2407: *m15421_6*: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47919	47514.43	268.33	47982	47536.1	269.66	47864	47477.83	251.91	47925	47482.5	256.88
		2op	47758	47506.07	161.06	47758	47741	53.47	47349	47349	0	47349	47349	0
	50	rnd	48043	47482.77	316.04	47923	47503.43	239.68	47914	47470.27	340.86	47916	47568.33	236.33
		2op	47758	47469.37	165.84	47758	47754.03	6.39	47758	47391.37	122.14	47349	47349	0
51	20	rnd	48032	47581.73	279.41	47968	47578.73	253.31	47909	47563.83	270.74	47839	47510.6	228.83
		2op	47758	47493.4	167.52	47758	47756.87	3.06	47758	47509.03	177.54	47349	47349	0
	50	rnd	47848	47504.93	240.62	47837	47481.2	308.86	47986	47562.3	298.49	47916	47524.33	246.58
		2op	47758	47555.47	171.47	47758	47757.2	1.35	47758	47713.13	97.34	47738	47373.37	92.94

Table A.2408: *m15421_6*: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48050	47670.47	186.95	48052	47709.87	224.23	47932	47586	255.28	47943	47560.4	313.84
		2op	47758	47498.63	160.5	47758	47735.37	61.01	47758	47376.27	103.77	47349	47349	0
	50	rnd	47910	47571.03	258	48050	47745.97	169.62	48002	47587.27	263.25	48027	47545.97	262.63
51	20	rnd	47758	47490.33	175.79	47758	47752.17	8.22	47758	47435.87	157.87	47349	47349	0
		2op	47933	47573.63	247.13	48050	47665.9	184.85	47976	47661.67	251.89	47866	47553.37	174.66
	50	rnd	47758	47527.27	165.73	47758	47750.87	32.29	47758	47580.33	176.02	47349	47349	0
	20	rnd	48043	47684.4	223.81	47897	47653.67	215.26	47954	47621.33	229.39	48039	47512.13	279.09
		2op	47758	47497.17	166.77	47758	47736.1	68.02	47758	47710.23	96.6	47349	47349	0

Table A.2409: *m15421_6*: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48036	47559.73	266.91	47950	47584.7	237.13	47906	47566.23	218.64	47910	47539.4	262.32
		2op	47758	47620.13	163.57	47758	47622.03	169.9	47758	47375.9	102.38	47349	47349	0
	50	rnd	47964	47642.3	229.11	48046	47648.23	278.94	47944	47451.63	342.38	47943	47457.27	280.78
51	20	rnd	47758	47685.67	125.24	47758	47693.8	116.15	47747	47362.27	72.66	47349	47349	0
		2op	48025	47703.67	207.35	48052	47698.63	196.24	47917	47610.17	218.58	47848	47578.77	181.18
	50	rnd	47758	47748.2	17.28	47758	47755.67	5.5	47758	47573.83	188.61	47349	47349	0
	20	rnd	48052	47718.3	165.3	47943	47678.63	214.76	48050	47548.6	315.71	47898	47502.57	241.79
		2op	47758	47753.63	7.16	47758	47748.33	32.36	47758	47521.03	184.88	47349	47349	0

Table A.2410: *m15421_6*: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47961	47667.7	170.93	47961	47648.8	214.43	47967	47606.47	197.48	48027	47525.53	293.73
		2op	47814	47650.1	153.95	47814	47647.83	152.91	47758	47375.6	101.26	47349	47349	0
	50	rnd	48034	47689	221.39	48046	47632.47	215.6	47949	47584.13	234.23	47836	47558.2	261.46
51	20	rnd	47758	47682.73	127.34	47758	47703.9	106.59	47758	47364.57	75.06	47349	47349	0
		2op	47918	47537.83	262.81	48052	47688.43	212.41	47952	47612.8	262.35	48043	47548.93	314.69
	50	rnd	47758	47750.9	8.92	47758	47756	5.19	47758	47471.8	171.24	47349	47349	0
	20	rnd	47875	47608.03	203.47	47978	47615.6	176.48	47958	47636.5	218.07	47862	47546.23	215.16
		2op	47758	47743.6	61.81	47758	47752.7	8.73	47758	47544.43	191.49	47349	47349	0

Table A.2411: *m15421_6*: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54750	54213.5	266.11	55042	54361.5	406.41	54729	54358.1	271.44	54880	54300.37	341.91
		2op	54753	54722.77	20.06	54959	54733.4	47.51	54705	54705	0	54705	54705	0
	50	rnd	54914	54337.93	382.98	54960	54266.5	418.26	54884	54329	412.07	54827	54397.83	274.96
51	20	rnd	54745	54718.43	18.75	54754	54745.1	4.03	54745	54706.33	7.3	54705	54705	0
		2op	54975	54385.23	360.22	54945	54367.57	333.35	54815	54274.07	283.99	54895	54293.73	318.65
	50	rnd	54745	54719.57	19.25	54766	54747.2	7.7	54745	54713.93	14.74	54705	54705	0
	20	rnd	54922	54498.27	260.15	54925	54383.23	279.57	54739	54270.33	356.22	54716	54283.9	274.34
		2op	54753	54733.53	18.11	54754	54751.03	4.82	54959	54737.9	46.09	54705	54705	0

Table A.2412: *m15421_7*: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54985	54504.9	301.62	55102	54519.5	316.35	54876	54361.5	341.33	54921	54336.9	344.49
		2op	54745	54723.73	19.69	54756	54730.13	18.94	54705	54705	0	54705	54705	0
	50	rnd	54947	54461.03	278.47	55165	54768.57	228.34	54985	54403.53	257.66	55100	54313.33	364.19
51	20	rnd	54754	54726.5	20.14	54769	54746.1	5.9	54741	54706.2	6.57	54705	54705	0
		2op	55025	54378.63	417.59	55169	54641.93	242.38	54856	54458.83	318.61	54955	54322.97	270.66
	50	rnd	54745	54728.9	19.45	54756	54747.13	4.74	54747	54720.07	19.11	54741	54706.2	6.57
	20	rnd	55121	54462.8	297.48	55155	54798.83	226.64	54986	54583.97	330.7	54951	54374	319.72
		2op	54745	54726.43	19.58	54754	54751.47	4.81	54745	54725.83	19	54705	54705	0

Table A.2413: *m15421_7*: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54814	54322.9	320.56	54866	54364.2	293.07	54827	54341.97	352.12	54872	54356.33	359.93
		2op	54745	54719.9	19.71	54747	54724.53	18.32	54705	54705	0	54705	54705	0
	50	rnd	54802	54304.4	377.65	55008	54384.9	369.44	54757	54177.23	390.15	54788	54203.73	333.19
51	20	rnd	54745	54720.47	18.78	54755	54744.97	5.82	54745	54706.5	7.33	54705	54705	0
		2op	54832	54363.33	294.76	54783	54292.47	347.24	54615	54243.57	259.54	54853	54379.4	243.98
	50	rnd	54745	54721.6	20.34	54756	54746.9	6.19	54747	54720.03	20.27	54705	54705	0
	20	rnd	54847	54430.17	312.42	55030	54460.63	350.63	54776	54307.6	328.01	54805	54323.33	325.92
		2op	54745	54723.67	19.76	54762	54750.33	5.03	54959	54737.6	45.91	54705	54705	0

Table A.2414: *m15421_7*: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55146	54598.43	302.57	55107	54558.7	356.76	55084	54432.3	355.28	55018	54299.83	353.09
		2op	54745	54724.67	19.19	54754	54726.63	19.43	54705	54705	0	54705	54705	0
	50	rnd	54880	54490.27	288.05	55051	54641.1	241.07	54912	54427.13	338.98	54912	54335.63	378.13
51	20	rnd	54753	54728.53	19.54	54754	54744.8	6.43	54705	54705	0	54705	54705	0
		2op	55168	54548.93	286.84	55028	54637	209.84	54927	54426.27	340.17	54801	54293	354.18
	50	rnd	54754	54733	17.74	54754	54747.2	7.54	54746	54715.57	16.45	54705	54705	0
	20	rnd	54951	54554.27	241.99	55170	54771.8	233.32	55046	54538.97	271.59	55141	54457.27	342.9
		2op	54745	54731.8	18.5	54754	54751.3	3.99	54747	54724.33	18.8	54705	54705	0

Table A.2415: *m15421.7*: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55168	54488.43	393.38	54946	54490.27	336.98	54939	54354.97	361.88	54834	54348.53	281.78
		2op	54754	54737.13	16.53	54959	54741.37	44.62	54705	54705	0	54705	54705	0
	50	rnd	55087	54508.53	273.09	55160	54528.03	383.81	54832	54270.77	300.29	54945	54355.3	334.98
51	20	rnd	54754	54741.4	12.57	54754	54738.43	14.24	54720	54705.5	2.74	54705	54705	0
		2op	55065	54567.2	255.19	55035	54685.2	224.12	54936	54405.53	319.27	55031	54326.07	372.7
	50	rnd	54754	54745.03	8.13	54755	54746.93	3.75	54747	54713.87	16.32	54705	54705	0
	20	rnd	55002	54647.07	227.93	55117	54715.6	216.92	54984	54397.27	512.4	54856	54220.83	395.98
		2op	54769	54748.63	5.75	54754	54745.87	5.98	54746	54708.8	13.04	54705	54705	0

Table A.2416: *m15421.7*: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55048	54584.17	296.33	54874	54534.73	252.18	54921	54406.13	301.68	54842	54340.5	374.99
		2op	54754	54731.87	19.17	54754	54726.6	20.62	54705	54705	0	54705	54705	0
	50	rnd	55135	54593.13	331.15	54950	54477.47	320.2	54866	54333	333.53	54899	54383.23	348.37
51	20	rnd	54754	54741.33	13.1	54754	54738.9	14.51	54741	54706.2	6.57	54705	54705	0
		2op	54978	54590.43	301.87	54995	54595.53	271.87	55037	54525	328.09	54942	54183.1	423.38
	50	rnd	54754	54746.27	8.78	54769	54749.07	5.66	54747	54712.43	15.38	54705	54705	0
	20	rnd	55168	54664.23	273.76	55120	54563.6	383.8	55060	54420.2	312.8	54913	54309.4	397.13
		2op	54754	54748.33	4.87	54754	54745.97	8.97	54754	54711.53	15.12	54705	54705	0

Table A.2417: *m15421.7*: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11220.9	130.96	11478	11291.13	129.81	11478	11259.27	185.05	11478	11178.23	187.02
		2op	11109	11035.2	40.73	11373	11219.13	88.79	11109	11109	0	11017	11003.93	3.55
	50	rnd	11394	11176.67	144.22	11478	11289.67	119.15	11478	11223.9	179.08	11411	11179.47	161.68
51	20	rnd	11195	11047.27	51.39	11373	11272.83	48.2	11305	11148.8	73.82	11109	11053.13	46.29
		2op	11411	11209.47	157.21	11478	11329.83	98.74	11478	11286.77	145.57	11478	11261.27	134.55
	50	rnd	11109	11027.4	31.52	11256	11118.8	37.3	11305	11191.93	91.34	11109	11109	0
	20	rnd	11411	11199.93	137.98	11478	11324.83	106.98	11478	11261.33	154.55	11478	11279.67	138
		2op	11195	11074.13	50.45	11394	11180.9	95.46	11411	11260.3	72.61	11109	11109	0

Table A.2418: $x60189_4$: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11238.77	134.18	11478	11266.53	131.6	11478	11248.17	133.35	11478	11260.27	110.99
		2op	11109	11034.73	39.93	11373	11232.6	85.03	11109	11109	0	11017	11003.93	3.55
	50	rnd	11478	11234.2	179.14	11478	11284.7	114.61	11478	11301.13	132.08	11478	11260.4	100.65
51	20	rnd	11305	11063.37	77.98	11373	11261.73	65.6	11373	11133.57	70.64	11109	11053.13	46.29
		2op	11478	11176.1	163.29	11478	11252.97	151.64	11478	11241.13	129.5	11478	11211.97	154.45
	50	rnd	11109	11030.93	35.76	11285	11119.77	41.15	11305	11199.43	81.6	11109	11105.93	16.8
	20	rnd	11478	11191.17	146.62	11478	11305.87	115.65	11478	11288.83	141.04	11478	11243.13	173.1
		2op	11109	11072.8	44.42	11373	11213.83	85.29	11373	11277.3	56.23	11109	11109	0

Table A.2419: $x60189_4$: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11215.17	155.76	11478	11287.8	96.19	11478	11217.4	136.17	11478	11154.13	175.89
		2op	11285	11035.8	62.56	11305	11207.87	90.56	11305	11115.53	35.78	11017	11003.47	2.56
	50	rnd	11413	11201.07	170.54	11478	11306.63	121.11	11411	11217.87	130.81	11411	11211.2	117.81
51	20	rnd	11109	11031.2	38.92	11373	11251.23	78.84	11394	11134.3	69.28	11109	11026.73	36.79
		2op	11411	11199.27	161.01	11413	11265	108.35	11478	11333.67	98.33	11478	11270	115.08
	50	rnd	11109	11045.67	42.04	11196	11111.9	15.88	11305	11183.9	88.62	11109	11109	0
	20	rnd	11413	11234.43	119.67	11478	11296	118.58	11478	11344.1	108.14	11478	11284.37	134.81
		2op	11305	11064.53	69.69	11373	11219.23	90.84	11394	11286.77	61.72	11305	11115.53	35.78

Table A.2420: $x60189_4$: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11221.73	176.41	11478	11307.8	131.58	11478	11266.87	145.04	11478	11202.83	159.35
		2op	11285	11032.73	61.09	11394	11256.53	76.64	11151	11110.4	7.67	11017	11003.47	2.56
	50	rnd	11478	11216.03	131.76	11478	11283.83	141.79	11478	11256.73	114.41	11478	11272.47	137.25
51	20	rnd	11478	11032.07	48.08	11394	11279.17	57.77	11305	11139.37	69.52	11109	11026.73	36.79
		2op	11478	11187.13	134.11	11478	11219.77	141.83	11411	11235.27	93.71	11478	11207.23	170.94
	50	rnd	11109	11041.07	40.67	11305	11138.7	67.96	11305	11155.7	79.66	11109	11109	0
	20	rnd	11478	11186.97	178.68	11478	11306.23	145.64	11478	11317.3	127.66	11478	11292.67	158.5
		2op	11305	11063.67	65.54	11373	11210.83	101.36	11373	11276.83	52.59	11109	11108.53	2.56

Table A.2421: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11413	11226.6	140.92	11478	11313.93	138.51	11413	11184.93	171.6	11394	11133.73	171.11
		2op	11109	11078.33	44.11	11478	11260.4	84.69	11109	11016.87	30.36	11003	11003	0
	50	rnd	11411	11261.1	101.19	11478	11301.37	128.75	11478	11191.97	125.55	11394	11146.7	157.54
51	20	rnd	11256	11103.47	54.02	11373	11235.37	90.65	11109	11039	45.05	11095	11006.07	16.8
		2op	11413	11261.3	96.26	11478	11292.13	106.36	11478	11214.9	185.06	11411	11135.9	186.95
	50	rnd	11109	11093.67	34.87	11285	11121.17	41.48	11151	11076.67	46.8	11017	11004.4	4.27
	20	rnd	11413	11264.07	76.77	11478	11319.23	124.68	11478	11263.6	98.22	11478	11161.93	166.14
		2op	11109	11099.8	28.07	11305	11173	81.49	11109	11090.13	37.28	11109	11008.87	19.64

Table A.2422: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11238.53	148.89	11478	11296.57	137.26	11478	11198.87	186.94	11394	11182.2	159.84
		2op	11109	11078.33	44.11	11305	11273.3	59.4	11109	11016.87	30.36	11003	11003	0
	50	rnd	11478	11182.73	169.82	11478	11282.43	111.08	11478	11216.17	136.14	11478	11169.17	167.18
51	20	rnd	11256	11098.57	45.74	11394	11242.77	89.21	11137	11036.87	45.11	11095	11006.07	16.8
		2op	11478	11221.43	140.64	11478	11281.8	140.47	11478	11249.27	119.78	11478	11216.37	148.08
	50	rnd	11109	11093.67	34.87	11305	11122.07	49.73	11151	11083.73	45.77	11017	11004.4	4.27
	20	rnd	11413	11222.47	128.87	11478	11274.73	156	11478	11241.97	157.43	11413	11183.57	168.53
		2op	11305	11103.27	49.58	11305	11149.17	74.89	11305	11096.2	54.04	11017	11005.8	5.7

Table A.2423: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13891.07	156.44	14157	14018.53	95.43	14133	13822.47	165.15	14157	13780.1	195.92
		2op	13995	13830.27	85.46	14133	13995.77	47.25	13995	13948.3	49.53	13721	13721	0
	50	rnd	14161	13906.93	172.03	14161	14004.53	138.08	14161	13942.3	115.43	14079	13827.23	186.88
		2op	14001	13846.97	77.1	14157	14037.77	56.45	13995	13965.8	25.88	13922	13737.77	46.44
51	20	rnd	14161	13906.33	141.54	14161	13977.3	163.28	14161	14005.2	105.4	14137	13897.33	134.62
		2op	14038	13862.5	75.05	14157	14009.7	41.74	14157	13994.27	48.2	13995	13800.23	91.94
	50	rnd	14161	13925.2	153.52	14161	13999.03	113.07	14161	14010.93	121.66	14121	13854.37	154.62
		2op	13995	13884.07	78.94	14157	14018.23	55.22	14157	14034.83	51.84	13995	13837.5	89.88

Table A.2424: *x60189_5*: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14119	13860.73	121.57	14161	13964.8	115.05	14161	13932.5	110.8	14133	13869.1	151.73
		2op	14038	13865.8	107.24	14157	14018.57	53.86	13995	13945.8	49.18	13721	13721	0
	50	rnd	14157	13834	202.26	14137	13960.9	109.08	14161	13961.27	150.03	14161	13879.5	195.43
		2op	14133	13895.17	106.23	14157	14023.73	54.03	14038	13960.37	41.02	13922	13737.77	46.44
51	20	rnd	14157	13877.4	183.32	14137	13900.47	119.17	14161	13943.13	131.65	14161	13930.37	153.67
		2op	14038	13871.53	86.78	14157	14000.63	64.1	14157	13991.63	44.77	13995	13802.1	92.73
	50	rnd	14071	13816.93	190.23	14161	13950.93	128.14	14139	13966.03	128.29	14161	13861.97	175.41
		2op	13995	13903.37	79.39	14157	14021.17	65.19	14157	14006.67	47.49	13968	13822.53	83.88

Table A.2425: *x60189_5*: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13919.53	155.04	14161	14010.63	143.74	14133	13862.9	161.52	14094	13796.4	135.01
		2op	14018	13868.83	98.6	14133	13995.27	53.9	13995	13902.6	84.55	13721	13721	0
	50	rnd	14137	13899.77	169.17	14161	14010.5	106.7	14139	13881.43	179.66	14066	13800.07	148.12
		2op	14038	13860.6	96.07	14157	14014.4	49.34	13995	13965.97	25.88	13827	13724.53	19.35
51	20	rnd	14161	13957.13	117.05	14161	13990.13	144.3	14157	13986.1	118.45	14127	13856.17	176.54
		2op	14038	13844.3	89.5	14157	14007.27	43.81	14038	13986.67	32.08	13968	13804	81.96
	50	rnd	14161	13968.97	137	14161	13978.17	119.27	14161	14022.17	115.04	14157	13894.17	175.08
		2op	14038	13866.53	85.19	14157	14024.7	59.34	14157	14016.77	47.06	14038	13814.23	94.75

Table A.2426: *x60189_5*: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14133	13831.93	181.28	14161	13962.2	142.96	14161	13943.83	141.08	14105	13766.5	190.04
		2op	14038	13894.77	102.54	14157	14031	57.46	14038	13905.93	87.9	13721	13721	0
	50	rnd	14128	13860.97	127.11	14157	13978.3	141.06	14157	13970.4	107.8	14139	13865.5	183.49
51	20	rnd	14137	13853.67	152.6	14161	13905.17	128.03	14161	13927.3	151.01	14161	13945.83	180.65
		2op	14038	13860.47	97.04	14157	14009.7	54.25	14157	14007.83	47.01	13968	13808.87	91.77
	50	rnd	14139	13869	175.32	14161	13989.87	107.16	14161	13977.7	138.77	14161	13817.57	183.28
		2op	14038	13886.73	105.5	14157	14008.6	58.15	14157	14032.67	64.23	14038	13823.37	98.58

Table A.2427: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13950.23	147.59	14161	14013.37	125.12	14137	13875.83	167.18	14099	13778.4	189.13
		2op	13995	13865.97	56.54	14157	14013.13	77.12	13995	13740.2	57.11	13721	13721	0
	50	rnd	14139	13998.23	118.05	14161	14009.57	106.61	14137	13818.17	197.45	14123	13835.73	146.61
51	20	rnd	13995	13873.6	72.1	14157	13996.37	72.96	14004	13766.13	91.44	13721	13721	0
		2op	14161	13954.07	153.2	14161	13982.8	133.04	14157	13932.77	161.09	14071	13867.87	145.04
	50	rnd	13995	13883.6	79.32	14038	13975.33	38.48	14038	13836.17	96.88	13721	13721	0
		2op	14139	13992.17	123.23	14137	13963.9	82.04	14139	13914.8	142.87	14133	13773.5	159.69
			13995	13898.6	79.65	14038	13978.27	39.73	13995	13817.5	83.05	13721	13721	0

Table A.2428: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13872	191.25	14139	13970.57	95.87	14127	13803.7	173.1	14139	13842.1	171.19
		2op	14038	13936.67	68.9	14157	14005.87	46.96	13995	13743.7	65.25	13721	13721	0
	50	rnd	14161	13845.67	192.96	14157	13944.3	152.97	14058	13794.97	153.72	14064	13800.23	157.74
51	20	rnd	14038	13983.47	48.58	14071	13994.6	27.43	14004	13766.13	91.44	13721	13721	0
		2op	14137	13896.13	141.01	14161	13927.67	119.73	14139	13902.87	159.17	14127	13818.07	178.83
	50	rnd	14038	13952.57	62.15	13995	13978.47	13.79	14038	13852.7	96.18	13721	13721	0
		2op	14137	13877.47	126.32	14133	13924.93	130.64	14161	13971.73	139.64	14161	13852.57	153.55
			14038	13971.27	42.96	14064	13985.2	31.24	14018	13834.73	102.25	13721	13721	0

Table A.2429: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18143	17939.27	123.52	18301	17963.53	159.49	18172	17828.63	219.55	18172	17775.6	173.04
		2op	18017	18009.33	11.03	18017	18017	0	18017	18013.93	7.95	17994	17994	0
	50	rnd	18156	17895.3	107.83	18301	18061.1	122.38	18301	17807.47	242.82	18184	17841.37	175.94
51	20	rnd	18017	18010.1	10.72	18017	18017	0	18017	18017	0	18017	17994.77	4.2
		2op	18184	17925.53	187.68	18301	17989.4	149.59	18301	17949.97	177.07	18171	17860.8	179.6
	50	rnd	18017	18012.4	9.36	18017	18017	0	18017	18017	0	18017	18000.13	10.34
	20	rnd	18184	17987.5	171.23	18184	17984.07	129.52	18216	18000.4	146.22	18172	17882.83	167.63
		2op	18017	18012.4	9.36	18017	18017	0	18017	18017	0	18017	18000.13	10.34

Table A.2430: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18093	17884.8	152.66	18136	17982.3	138.03	18301	17980.27	162.94	18261	17880.73	193.21
		2op	18017	18009.33	11.03	18017	18017	0	18017	18013.93	7.95	17994	17994	0
	50	rnd	18175	17863.6	187.19	18184	18007.4	160.58	18172	17957.13	183.07	18301	17915.9	190.34
51	20	rnd	18017	18010.1	10.72	18017	18016.73	1.46	18017	18017	0	18017	17994.77	4.2
		2op	18184	17888.03	176.35	18171	17978	137.58	18301	17961.93	135.49	18176	17940.83	177.2
	50	rnd	18017	18012.4	9.36	18017	18017	0	18017	18017	0	18017	18000.13	10.34
	20	rnd	18114	17844.6	182.53	18125	17924.83	175.74	18156	17952.77	124.13	18176	17909.27	163.04
		2op	18017	18012.4	9.36	18017	18017	0	18017	18017	0	18017	18000.13	10.34

Table A.2431: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18184	17919.8	160.16	18171	17956	165.31	18292	17812.77	189.07	18184	17817.83	235.51
		2op	18017	18007.8	11.46	18017	18017	0	18017	18009.33	11.03	17994	17994	0
	50	rnd	18172	17894.93	165.98	18301	18039.33	124.83	18172	17860.83	187.54	18142	17868.37	176.77
51	20	rnd	18017	18007.8	11.46	18017	18017	0	18017	18017	0	17994	17994	0
		2op	18175	17919.23	156.19	18186	17970.2	140.13	18301	17953.87	216.88	18109	17830.6	177.33
	50	rnd	18017	18013.93	7.95	18017	18017	0	18017	18017	0	18017	17999.37	9.89
	20	rnd	18142	17930.7	115.78	18301	18040.4	100.72	18301	18001.47	130.45	18301	17854.23	233.03
		2op	18017	18013.17	8.72	18017	18017	0	18017	18017	0	18017	18002.43	11.27

Table A.2432: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17883.53	201.13	18171	17966.27	149.8	18165	17976.53	132.92	18171	17863.13	185.53
		2op	18017	18007.8	11.46	18017	18017	0	18017	18009.33	11.03	17994	17994	0
	50	rnd	18109	17897.6	147.39	18301	17967.57	159.08	18172	17981.03	117.52	18172	17923.03	192.4
		2op	18017	18007.8	11.46	18017	18017	0	18017	18017	0	17994	17994	0
51	20	rnd	18275	17887.53	165.01	18165	17990.17	131.92	18275	18020.17	118.4	18165	17870.97	164.35
		2op	18017	18013.93	7.95	18017	18017	0	18017	18017	0	18017	17999.37	9.89
	50	rnd	18301	17951.17	162.24	18301	17969.07	141.73	18301	17969.53	141.27	18142	17933.9	121.8
		2op	18017	18013.17	8.72	18017	18017	0	18017	18017	0	18017	18002.43	11.27

Table A.2433: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18165	17948.77	163.99	18165	18022.43	105.98	18301	17869.4	222.14	18275	17901.4	192.21
		2op	18017	18017	0	18017	18017	0	18017	17997.07	7.95	17994	17994	0
	50	rnd	18184	17964.77	124.71	18301	18005.27	136.03	18184	17908.4	185.73	18044	17777.53	187.56
		2op	18017	18017	0	18017	18017	0	18017	18000.13	10.34	17994	17994	0
51	20	rnd	18184	17974.67	150.65	18184	18000.4	163.49	18301	17985.3	152.65	18119	17831.87	156.64
		2op	18017	18017	0	18017	18017	0	18017	18014.7	7.02	17994	17994	0
	50	rnd	18142	17975.63	158.3	18184	17995.43	157.27	18184	17887.53	189.51	18172	17873.53	181.16
		2op	18017	18017	0	18017	18017	0	18017	18012.4	9.36	17994	17994	0

Table A.2434: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17899.37	213.71	18181	18009.43	123.21	18152	17901.77	139.94	18301	17900.93	151.42
		2op	18017	18017	0	18017	18017	0	18017	17997.07	7.95	17994	17994	0
	50	rnd	18084	17882.47	136	18301	18041.43	126.84	18301	17912.1	186.67	18152	17896.37	164.9
		2op	18017	18017	0	18017	18017	0	18017	18000.13	10.34	17994	17994	0
51	20	rnd	18181	17941.8	180.88	18165	17958.17	154.52	18142	17899.17	161.5	18301	17878.7	207.05
		2op	18017	18017	0	18017	18017	0	18017	18014.7	7.02	17994	17994	0
	50	rnd	18176	18020.17	110.14	18152	17959.17	123.7	18184	17991.07	120.84	18216	17921.07	132.3
		2op	18017	18017	0	18017	18017	0	18017	18012.4	9.36	17994	17994	0

Table A.2435: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21199	20944.33	160.49	21178	20926.37	171.02	21104	20797.03	192.01	21212	20883.13	190.11
		2op	20829	20829	0	21193	20854.27	77.34	20829	20829	0	20829	20829	0
	50	rnd	21212	20935.3	183.85	21206	20946.8	173.88	21177	20813.33	259.85	21206	20831	221.23
51	20	rnd	21008	20839.43	40.14	21193	20938.3	117.93	20829	20829	0	20829	20829	0
		2op	21152	20897.73	167.99	21212	21020	141.5	21163	20928.1	175.16	21181	20882.37	178.41
	50	rnd	20829	20829	0	21193	20906.67	123.95	20829	20829	0	20829	20829	0
	20	rnd	21210	20969.37	164.75	21212	20987.57	182.96	21271	20971.73	148.71	21212	20865.4	207.35
		2op	20889	20831	10.95	21190	20952.13	106.78	21051	20840.4	42.58	20829	20829	0

Table A.2436: $x60189.7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21184	20871.63	192.98	21178	20943.4	168.19	21271	20915.33	264.89	21150	20869.97	195.18
		2op	20829	20829	0	21193	20855.87	80.5	20829	20829	0	20829	20829	0
	50	rnd	21162	20832.93	238.36	21188	20980	136.35	21271	20922.7	171.8	21196	20870	228.23
51	20	rnd	21008	20839.43	40.14	21210	20956.83	139.94	20829	20829	0	20829	20829	0
		2op	21172	20870.6	166.3	21196	20944.8	190.01	21186	20972.2	158.25	21192	20846.07	239.38
	50	rnd	20829	20829	0	21193	20918.37	119.82	21115	20838.53	52.22	20829	20829	0
	20	rnd	21245	20832.27	282.16	21193	20959.97	152.69	21212	20971.2	146.25	21172	20905.3	210.23
		2op	20889	20831	10.95	21187	20942.9	106.84	21193	20849.13	68.16	20829	20829	0

Table A.2437: $x60189.7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21166	20838.57	188.77	21212	20938.93	178.11	21212	20857.57	256.52	21132	20857.67	213.98
		2op	20997	20836.6	32.21	21139	20844.93	63.44	20829	20829	0	20829	20829	0
	50	rnd	21198	20981.47	136	21218	20989.03	127.72	21184	20785.93	224.18	21162	20832.6	183.47
51	20	rnd	21077	20844.87	60.44	21187	20879.87	100.4	20829	20829	0	20829	20829	0
		2op	21173	20939.63	147.73	21249	20978.57	187.7	21178	20852.23	193.01	21160	20873.87	170.82
	50	rnd	20889	20831	10.95	21193	20912.07	103.31	20829	20829	0	20829	20829	0
	20	rnd	21182	20950.13	159.11	21169	20975.8	143.36	21151	20956.23	127.95	21195	20885.3	215.16
		2op	21042	20839.4	42.31	21193	20940.77	111.32	21187	20848.03	74.89	20829	20829	0

Table A.2438: $x60189.7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21175	20875.5	206.23	21222	20954.17	175.82	21166	20855.53	210.46	21233	20848.9	212.81
		2op	20997	20836.6	32.21	21139	20846.73	63.74	20829	20829	0	20829	20829	0
	50	rnd	21233	20883.97	220.04	21212	20994.43	139.03	21149	20830.8	189.28	21157	20849.47	181.59
			2op	21077	20844.87	60.44	21193	20876.87	100.83	20829	20829	0	20829	0
51	20	rnd	21172	20840.23	235.77	21161	20933.57	160.1	21203	20919.37	197.75	21212	20872.57	191.61
		2op	20889	20831	10.95	21193	20908.03	91.81	20889	20831	10.95	20829	20829	0
	50	rnd	21153	20876.27	188.17	21182	20980.17	159.82	21187	21005.73	112.11	21168	20901.3	158.16
			2op	21042	20839.4	42.31	21187	20969.3	107.16	21187	20848.03	74.89	20829	0

Table A.2439: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21218	20982.5	156.94	21203	20969.83	147.54	21160	20800.27	233.24	21130	20761.17	192.23
		2op	20829	20829	0	21210	20902.1	103.93	20829	20829	0	20829	20829	0
	50	rnd	21218	20941.7	182.14	21217	20957.23	147.9	21160	20802.07	212.69	21087	20795.5	177.88
			2op	21008	20838.77	35.08	21068	20887.27	87.68	20829	20829	0	20829	0
51	20	rnd	21203	20913.6	202.61	21210	21007.63	169.23	21271	20972.43	173.14	21114	20830.47	199.72
		2op	20889	20831	10.95	21193	20892.03	95.71	20889	20831	10.95	20829	20829	0
	50	rnd	21203	20935.13	142.86	21206	21007.2	126.19	21202	20881.77	189.38	21186	20839.33	215.68
			2op	21193	20868.4	106.42	21193	20931.07	119.05	20889	20831	10.95	20829	0

Table A.2440: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21249	20889.43	208.74	21271	20971.7	140.18	21169	20869.83	205.33	21246	20852.7	204.59
		2op	20829	20829	0	21193	20873.93	90.02	20829	20829	0	20829	20829	0
	50	rnd	21271	20912.57	165.19	21233	21000.47	141.31	21190	20823.57	190.26	21160	20824.27	185.27
			2op	21008	20838.77	35.08	21193	20886.93	107.68	20829	20829	0	20829	0
51	20	rnd	21203	20900.17	184.61	21203	20947.57	184.32	21196	20904	226.02	21224	20838.07	227.45
		2op	20889	20831	10.95	21193	20902.83	104.34	20889	20831	10.95	20829	20829	0
	50	rnd	21196	20896.97	185.99	21166	20909.43	174.93	21211	20917.43	212.32	21178	20856.97	190.14
			2op	21193	20868.4	106.42	21193	20932.3	131.8	20889	20831	10.95	20829	0

Table A.2441: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.17	3.71	596	593.33	1.49	596	593.77	1.65	596	591.1	3
		2op	596	592.5	2.56	595	594.93	0.25	596	594.63	0.72	594	593.67	1.06
	50	rnd	596	592.23	2.49	596	594.17	1.29	596	594.47	1.2	595	591.63	2.95
51	20	2op	595	593.03	1.87	596	595	0.26	596	595.13	0.43	595	594.1	0.31
		rnd	596	592.23	2.58	596	594.17	1.42	596	594	1.86	596	593.07	1.74
	50	2op	595	592.93	2	596	594.93	0.52	596	595.03	0.32	596	594.83	0.46
		rnd	596	593	2.05	596	594.43	1.01	596	594.73	0.98	596	593	2.17
		2op	595	593.17	2	596	595.1	0.31	596	595.33	0.48	595	594.6	0.56

Table A.2442: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.43	2.97	596	593.77	1.89	596	593.3	1.8	596	591.57	2.67
		2op	596	592.4	2.47	596	594.63	0.96	596	594.53	0.94	595	593.67	1.15
	50	rnd	596	592.13	2.99	596	594.5	1.38	596	594.77	1.07	596	591.8	2.64
51	20	2op	595	592.8	1.9	596	594.73	0.78	596	594.77	0.77	595	593.83	1.02
		rnd	595	591.17	2.41	596	593.9	1.71	596	594.27	1.44	596	593.17	2.13
	50	2op	595	593.27	1.86	596	594.93	0.37	596	595.23	0.43	595	594.7	0.53
		rnd	596	592.53	2.22	596	594.6	1.19	596	594.77	0.86	596	594.13	1.7
		2op	595	593.13	2.11	596	595	0.69	596	595.13	0.57	596	594.33	1.09

Table A.2443: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.2	2.62	596	594.5	1.17	595	592.97	2.11	596	590.93	3.22
		2op	595	591.9	2.17	595	594.93	0.25	596	594.5	0.57	594	593.03	1.45
	50	rnd	596	591.57	2.97	596	594.2	1.3	596	594.2	1.1	596	591	2.75
51	20	2op	595	592.63	1.99	596	595.03	0.32	596	595.07	0.45	595	594	0.26
		rnd	596	591.93	3.02	596	593.9	1.4	596	594.7	1.06	596	593.43	1.59
	50	2op	595	593.23	1.77	596	595	0.37	596	595.13	0.35	596	594.83	0.46
		rnd	596	591.73	2.73	596	594.5	1.31	596	595	1.17	596	593.13	2.19
		2op	596	593.27	1.84	596	595.1	0.55	596	595.07	0.25	596	594.63	0.56

Table A.2444: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	590.9	3.36	596	594.07	1.62	596	593.7	2.02	596	591.73	2.39
		2op	596	592.03	2.27	596	594.73	0.94	596	594.27	1.14	594	593.03	1.45
	50	rnd	595	591.13	2.62	596	594.6	1.07	596	594.53	1.22	596	592.63	2.17
51	20	rnd	596	590.87	3.41	596	593.77	1.65	596	594.67	1.35	595	593.3	1.56
		2op	595	593.4	1.57	596	594.9	0.4	596	595.1	0.31	596	594.87	0.51
	50	rnd	596	591.77	2.33	596	594.93	0.87	596	594.63	1.3	596	593.37	1.97
		2op	596	593.4	1.79	596	595.13	0.63	596	595.27	0.45	596	594.47	0.9

Table A.2445: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.67	2.41	596	594.43	1.3	596	590.6	3.68	595	589.97	4.09
		2op	596	594.1	0.92	596	595.1	0.48	594	590.33	2.04	589	589	0
	50	rnd	596	593	1.72	596	593.57	1.96	595	590.7	2.71	595	589.27	3.78
51	20	rnd	595	593.73	1.2	596	594.9	0.55	594	593.2	1.35	592	589.17	0.65
		2op	596	591.67	2.64	596	593.6	1.65	596	592.8	2.14	595	591.1	2.51
	50	rnd	595	593.73	1.26	596	594.93	0.37	595	594.53	0.51	594	591.4	2.18
		2op	596	593.57	1.83	596	593.73	1.84	596	592.47	1.87	595	588.97	4
			596	594.53	0.9	596	594.77	0.5	596	594.23	0.5	594	589.63	1.5

Table A.2446: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.83	2.76	596	594.17	1.37	595	591.57	2.65	595	589.03	3.42
		2op	596	594.33	0.71	596	595.1	0.55	594	590.47	2.13	589	589	0
	50	rnd	595	591.77	2.01	595	593.6	1.33	595	591.6	2.31	595	588.7	3.65
51	20	rnd	596	594.07	1.2	596	594.87	0.43	595	591.97	1.97	592	589.17	0.65
		2op	596	592.83	1.97	596	594.5	1.22	596	593	2.03	596	591.9	2.25
	50	rnd	595	594.13	0.35	596	595.07	0.25	595	594.33	0.48	595	591.63	2.33
		2op	596	592.83	1.53	596	593.9	1.6	596	593.17	1.82	595	589.27	3.69
			596	594.67	0.55	596	595.07	0.58	595	594.17	0.91	594	589.7	1.51

Table A.2447: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	770.4	4.49	777	775.07	1.86	777	773.33	2.22	777	770.57	5.29
		2op	775	768.93	3.3	777	774.07	1.93	776	773.03	1.87	772	769.47	0.82
	50	rnd	777	772	3.22	777	774.87	1.43	777	775	1.51	777	771.07	3.45
51	20	rnd	777	772.33	2.82	777	774.23	2.18	777	774.37	1.85	777	772.6	2.11
		2op	770	768.47	1.93	777	772.9	2.09	777	773.53	1.66	775	771.57	2.08
	50	rnd	777	772.8	2.86	777	774.97	1.54	777	775.47	1.5	777	773.7	2.73
		2op	771	769.27	1.53	777	774.17	1.95	777	774.57	1.89	774	771.77	1.74

Table A.2448: f_{25-400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.3	4.87	777	774.67	2.15	777	774.2	2.62	777	773.3	3
		2op	775	768.67	3.26	777	774.33	2.23	777	773.37	1.99	772	769.47	1.04
	50	rnd	777	772.03	5.08	777	775.33	1.47	777	775.2	1.63	777	772.2	2.89
51	20	rnd	777	770.03	3.5	777	775.1	1.63	777	775.3	1.86	770	769.67	0.55
		2op	775	768.77	2.25	777	773.03	1.85	777	773.4	1.22	775	772.1	2.01
	50	rnd	777	771.07	5.25	777	773.8	2.19	777	774.03	1.92	777	772.9	2.48
		2op	773	769.4	1.61	777	774.7	1.91	777	775.2	1.67	775	772.3	1.66

Table A.2449: f_{25-400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	770.13	3.3	777	774.73	1.53	777	774	2.44	777	770.87	6.67
		2op	775	768.8	3.01	777	773.13	2.13	777	771.9	1.92	770	769.07	1.34
	50	rnd	776	771.57	3.1	777	775.1	1.52	777	775.33	1.37	777	770.53	3.64
51	20	rnd	775	770.03	2.99	777	774.53	1.55	777	774.63	1.59	770	769.47	0.51
		2op	777	770.9	3.58	777	774.17	1.68	777	774.63	1.97	777	773.6	2.19
	50	rnd	770	768.33	1.84	777	772.9	2.5	777	774.07	1.46	776	771.5	1.91
		2op	777	771.7	3.23	777	775.07	1.53	777	775.3	0.95	777	774.37	2.24
		2op	775	770.13	2.3	777	775.13	1.72	777	775.17	1.93	777	771.83	2.18

Table A.2450: f_{25-400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.6	2.77	777	774.8	1.85	777	774.63	1.59	777	771.4	3.19
		2op	774	769.27	2.94	777	774.4	2.25	777	772.47	1.83	770	769.1	1.35
	50	rnd	777	772.7	2.9	777	775.03	1.27	777	774.73	1.57	777	772.27	2.61
51	20	2op	775	769.63	2.74	777	775.17	1.68	777	775.1	1.52	770	769.47	0.68
		rnd	777	771.13	4.68	777	773.83	2.18	777	774.1	1.84	777	773.6	2.31
	50	2op	775	768.43	2.25	777	773.53	1.59	777	774.2	1.4	776	772.4	1.69
	50	rnd	777	773.77	1.91	777	774.83	1.8	777	775.77	1.04	777	773.53	2.85
		2op	775	770.13	2.39	777	774.13	1.63	777	775.13	1.78	777	773.2	2.33

Table A.2451: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	771.23	3.37	777	774.83	1.84	777	771.3	3.74	777	769.13	5.63
		2op	774	769.9	1.42	777	774.2	1.54	770	766.8	2.22	765	765	0
	50	rnd	777	772.4	3.06	777	773.67	2.04	777	770.9	3.84	777	770.13	3.95
51	20	2op	775	769.9	2.01	777	774.33	1.65	770	768.47	1.63	765	765	0
		rnd	775	772.37	2.47	777	772.77	2.8	777	773.2	2.41	777	771.73	3.58
	50	2op	772	769.63	0.81	775	771.53	1.85	774	771	1.44	770	767.43	2.06
	50	rnd	777	772.83	2.12	777	773.4	2.11	777	772.33	2.41	777	770.33	3.99
		2op	774	770.17	1.32	777	772.5	1.8	774	770.9	1.71	770	765.37	1.27

Table A.2452: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	770.7	3.26	776	774.07	1.44	777	771.47	3.17	775	766.7	9.4
		2op	775	769.77	1.57	777	773.63	1.47	770	766.6	2.04	765	765	0
	50	rnd	777	772.43	2.66	777	775.1	1.54	777	772.6	3.66	776	768.33	5.44
51	20	2op	777	770.77	2.75	777	774.3	1.68	775	768.93	2.07	770	765.33	1.27
		rnd	777	771.77	2.84	777	773.43	2.4	777	773.03	2.67	777	771.1	3.14
	50	2op	772	769.7	0.79	776	772.3	1.32	774	771.1	1.56	770	766.73	1.93
	50	rnd	777	773.87	1.98	777	774.17	1.95	777	774.3	2.64	776	769.57	4.97
		2op	775	770.53	1.8	777	772.8	1.65	776	771.4	1.94	770	765.97	1.75

Table A.2453: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	915.57	2.93	921	917.83	2.55	921	916.67	2.71	921	915.43	3.26
		2op	916	912.9	2.73	921	918	1.84	921	916.9	1.77	916	915.9	0.55
	50	rnd	921	915.83	2.98	921	917.73	1.74	921	918.43	2.03	921	914.47	2.86
51	20	2op	921	915.13	2.61	921	917.8	1.83	921	918.2	1.9	916	915.97	0.18
		rnd	921	915.97	2.41	921	917.73	2.18	921	917.47	2.21	921	916.23	2.76
	50	2op	916	914.57	2.33	921	917.07	1.78	921	917.97	2.14	921	916.23	0.97
	20	rnd	921	915.37	3.22	921	917.47	1.89	921	918.2	1.54	921	917.2	2.51
		2op	918	915.73	1.26	921	918.6	2.08	921	918.6	1.9	921	916.47	1.17
	50	rnd	921	915.37	3.22	921	917.47	1.89	921	918.2	1.54	921	917.2	2.51

Table A.2454: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.67	3.31	921	917.13	2.81	921	916.2	2.75	919	915.23	2.49
		2op	919	914.2	3.08	921	918.53	1.89	921	917.67	1.84	919	915.93	1.84
	50	rnd	921	915.3	2.9	921	917.8	2.35	921	918.53	1.96	919	914.9	3.41
51	20	2op	921	914.97	2.61	921	918.63	1.97	921	919	1.89	919	916.37	1
		rnd	919	914.1	3.6	921	916.37	2.43	921	917.8	2.16	921	916.8	2.94
	50	2op	916	914.53	2.1	921	916.97	1.43	921	917.6	1.63	918	916.17	0.75
	20	rnd	919	914.1	3.2	921	916.7	2.1	921	917.23	2.14	921	915.6	3.39
		2op	917	915.2	1.65	921	918.73	2.05	921	919.27	1.78	921	916.63	1.56
	50	rnd	919	914.1	3.2	921	916.7	2.1	921	917.23	2.14	921	915.6	3.39

Table A.2455: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	915.03	2.47	921	917.5	2.49	921	916.8	2.19	919	913.77	3.43
		2op	916	914.27	2.18	921	917.93	2.21	918	916.27	0.64	916	916	0
	50	rnd	919	914.77	3.41	921	917.67	1.79	921	917.73	1.53	919	914.93	3.48
51	20	2op	921	915.1	3.04	921	918.2	1.99	921	917.9	2.02	916	915.83	0.91
		rnd	921	915	3.24	921	916.83	2.53	921	917.3	1.66	921	916.83	3.01
	50	2op	916	915.1	1.73	921	916.77	1.43	921	917	1.46	921	916.47	1.31
	20	rnd	919	914.7	3.03	921	917.57	2.01	921	917.87	1.5	921	916.87	3.12
		2op	921	915.13	2.43	921	918.23	1.77	921	919.33	1.49	916	916	0
	50	rnd	919	914.7	3.03	921	917.57	2.01	921	917.87	1.5	921	916.87	3.12

Table A.2456: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.27	3.68	921	917.47	1.89	921	916.53	2.56	921	915.47	2.6
		2op	919	914.4	2.54	921	918.4	2.08	921	917.1	1.58	921	916.17	1.46
	50	rnd	921	914	3.26	921	916.9	2.09	921	917.87	2.06	921	916.2	2.91
51	20	2op	921	915.33	3.12	921	918.4	1.96	921	918.9	1.92	918	916.23	0.73
		rnd	919	914.63	2.39	919	915.9	2.06	921	916.6	2.34	921	916.47	3.32
	50	2op	917	915.03	2.14	921	916.87	1.89	921	918.07	1.98	921	916.43	1.1
	20	rnd	921	915.13	2.96	921	917	2	921	918.13	1.57	921	916	2.57
		2op	919	914.57	2.43	921	918.6	1.89	921	918.8	1.83	919	916.27	0.83
	50	rnd	921	915.13	2.96	921	917	2	921	918.13	1.57	921	916	2.57

Table A.2457: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.87	2.66	921	917.53	2.08	921	914.43	2.87	921	913.03	3.93
		2op	916	915.67	1.27	921	918.2	1.79	919	915.7	2.31	914	906.27	1.46
	50	rnd	921	915.53	2.84	921	917.53	2.11	921	915.07	2.92	919	913.43	3.84
51	20	2op	921	915.97	1.22	921	917.27	1.46	916	916	0	912	906.7	1.62
		rnd	921	916.1	2.59	921	917.2	3.13	921	917.43	1.92	921	913.77	4.42
	50	2op	916	916	0	921	916.43	1.28	918	916.57	0.9	919	915.13	3.2
	20	rnd	921	917.17	2.12	921	917.77	2.61	921	916.4	2.42	919	913.5	3.04
		2op	916	916	0	921	916.63	1.43	918	916.13	0.51	919	909.87	3.65
	50	rnd	921	917.17	2.12	921	917.77	2.61	921	916.4	2.42	919	913.5	3.04

Table A.2458: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.07	3.17	921	916.97	2.4	918	912.73	2.83	918	910.83	4.74
		2op	918	915.27	1.84	921	917.1	1.54	921	916.97	2.14	919	907.23	3.07
	50	rnd	919	915.63	2.58	921	918.2	1.65	919	914.97	2.94	918	912.83	3.33
51	20	2op	918	914.73	2.36	921	917.47	1.66	919	915.4	2.08	919	907.67	3.45
		rnd	921	916	2.49	921	917.33	2.51	921	916.63	2.54	921	914.47	3.21
	50	2op	916	915.83	0.91	917	916.07	0.25	918	916.07	0.37	919	915.37	2.62
	20	rnd	921	916.5	3.29	921	916.67	3.03	921	916.1	2.6	921	914.7	3.05
		2op	916	915.97	0.18	921	916.5	1.17	919	916.23	1.07	919	912.73	4.23
	50	rnd	921	916.5	3.29	921	916.67	3.03	921	916.1	2.6	921	914.7	3.05

Table A.2459: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1573	1556.5	11.2	1577	1554.13	12.09	1572	1555.43	11.5	1577	1553.13	14.23
		2op	1567	1554.67	2.76	1569	1559.07	4.89	1557	1553.17	0.75	1553	1553	0
	50	rnd	1573	1558.77	7.03	1576	1560.7	6.65	1568	1551.4	11.31	1573	1552.73	14.14
51	20	2op	1568	1554.77	3.94	1572	1565.63	4.63	1567	1556.43	3.5	1555	1553.07	0.37
		rnd	1578	1556.83	10.4	1576	1557.53	11.08	1578	1560.23	9.35	1575	1557.33	9.8
	50	2op	1562	1554.7	2.48	1572	1563.5	6.14	1572	1559.7	5.93	1553	1553	0
	20	rnd	1574	1558.13	11.19	1577	1559.6	8.27	1577	1561.9	9.43	1571	1556	9.86
		2op	1566	1555.83	3.43	1573	1562.8	5.71	1572	1563.6	4.52	1557	1553.27	0.87

Table A.2460: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1577	1559.2	13.02	1572	1562.3	7.52	1573	1559.27	10.53	1573	1556.77	11.97
		2op	1567	1554.67	2.76	1569	1559.07	4.89	1557	1553.17	0.75	1553	1553	0
	50	rnd	1572	1559.5	9.35	1574	1562.3	6.33	1575	1560.97	7.58	1568	1554.47	12.82
51	20	2op	1568	1554.4	3.32	1575	1565.83	4.9	1567	1556.43	3.5	1555	1553.07	0.37
		rnd	1571	1559.37	10.84	1575	1561.13	8.24	1573	1562.27	9.95	1570	1554.17	11.41
	50	2op	1562	1554.8	2.55	1572	1563.8	5.35	1572	1559.03	5.18	1553	1553	0
	20	rnd	1573	1555.07	10.32	1581	1563.57	8.08	1577	1561.87	6.19	1573	1556.37	8.88
		2op	1566	1556.27	3.71	1573	1563.77	5.37	1572	1564.4	4.72	1557	1553.27	0.87

Table A.2461: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1556.6	10.21	1575	1556.6	10.75	1576	1556.03	10.9	1574	1552.93	13.69
		2op	1570	1554.47	3.28	1569	1559.33	4.72	1562	1553.8	1.95	1553	1553	0
	50	rnd	1575	1558.27	8.18	1574	1557.87	8.99	1573	1557.47	7.86	1571	1553.97	12.12
51	20	2op	1562	1554.1	2.11	1572	1564.6	5.08	1563	1554.93	2.39	1553	1553	0
		rnd	1577	1560.9	10.13	1574	1556.7	9.75	1573	1558.23	8.83	1570	1551.53	13.6
	50	2op	1566	1556.3	4.15	1573	1563.53	5.45	1567	1558.17	3.95	1553	1553	0
	20	rnd	1576	1560.07	9.3	1572	1559.7	10.01	1572	1558	7.95	1578	1557.07	12.3
		2op	1562	1554.43	2.21	1573	1565.13	5	1572	1563.13	5.08	1563	1553.6	2.04

Table A.2462: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1572	1557.83	8.45	1576	1562.1	7.81	1573	1558.3	9	1580	1557.3	10.89
		2op	1570	1554.47	3.28	1569	1559.33	4.72	1562	1553.8	1.95	1553	1553	0
	50	rnd	1575	1558.57	9.18	1576	1563.6	7.2	1574	1562.13	7.81	1574	1553.93	10.01
		2op	1570	1554.67	3.67	1572	1564.6	5.08	1563	1555.03	2.46	1553	1553	0
51	20	rnd	1577	1559.7	8.21	1580	1560.83	8.23	1574	1560.3	8.75	1573	1555.67	10.36
		2op	1563	1555.67	3.46	1569	1562.57	4.75	1572	1559.33	4.84	1553	1553	0
	50	rnd	1576	1560.13	9.98	1579	1563.43	8.34	1579	1562.13	8.1	1574	1557.07	11.25
		2op	1569	1555.03	3.8	1570	1563.87	4.51	1572	1563.83	4.72	1563	1553.6	2.04

Table A.2463: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1575	1560.47	8.13	1576	1559.83	8.79	1568	1552.5	16.38	1571	1551.67	14.01
		2op	1567	1555.5	3.64	1569	1556.1	4.47	1563	1553.33	1.83	1553	1553	0
	50	rnd	1570	1556.93	8.1	1578	1558.9	9.79	1572	1558.4	10.1	1577	1555.4	11.85
		2op	1566	1555.97	3.01	1562	1554.77	1.79	1555	1553.07	0.37	1553	1553	0
51	20	rnd	1574	1561.27	8.5	1578	1562.87	6.83	1570	1557.03	9.21	1568	1552.77	10.66
		2op	1569	1557.83	4.02	1578	1566.43	4.36	1563	1554.03	2.33	1553	1553	0
	50	rnd	1574	1563.6	6.03	1577	1561.93	7.66	1571	1555.4	12.59	1573	1555.33	12.57
		2op	1566	1559.3	3.7	1574	1561.73	5.09	1557	1553.2	0.81	1553	1553	0

Table A.2464: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1580	1559.73	9.01	1575	1557.27	11.32	1573	1553.13	14.47	1570	1554.07	11.52
		2op	1568	1556	4.3	1569	1557.37	4.99	1563	1553.33	1.83	1553	1553	0
	50	rnd	1574	1560.3	8.42	1572	1559.67	7.55	1578	1556.23	8.91	1570	1558.23	10.79
		2op	1564	1556.03	2.85	1564	1555.5	2.7	1555	1553.07	0.37	1553	1553	0
51	20	rnd	1578	1559.6	8.32	1576	1562.17	6.83	1575	1559.2	8.45	1574	1554.6	10.49
		2op	1564	1557.27	2.94	1571	1565.67	3.91	1559	1553.83	1.7	1553	1553	0
	50	rnd	1572	1559.27	7.11	1575	1561.13	7.06	1576	1556.5	8.74	1577	1559.2	9.08
		2op	1568	1559.7	3.99	1569	1560.33	4.34	1558	1553.37	1.19	1553	1553	0

Table A.2465: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1543.47	16.06	1570	1550.63	10.29	1566	1548.37	12.2	1568	1547.53	9.28
		2op	1563	1536	10.72	1562	1540.97	11.59	1531	1531	0	1531	1531	0
	50	rnd	1563	1544.97	11.03	1569	1555.07	8.41	1569	1554.6	10.57	1564	1549.67	10.32
51	20	2op	1558	1534.23	8.46	1564	1545	10.79	1561	1533.4	7.37	1531	1531	0
		rnd	1569	1548.7	12.03	1569	1554.8	8.36	1568	1556.1	7.96	1569	1552.27	10.55
	50	2op	1561	1539.9	11.66	1565	1547.47	11.27	1567	1544.07	12.77	1531	1531	0
	20	rnd	1567	1550.53	11.09	1567	1553.87	8.69	1567	1555.1	8.88	1568	1551.47	12.71
		2op	1566	1541.63	13.81	1567	1550.03	11.73	1566	1548.93	11.55	1550	1531.63	3.47

Table A.2466: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1555.33	10.36	1571	1557.4	7.84	1566	1553.47	11.26	1565	1548.37	11.71
		2op	1563	1536	10.72	1564	1540.67	12.25	1531	1531	0	1531	1531	0
	50	rnd	1571	1553.6	9.93	1570	1559.17	6.94	1572	1557.6	7.86	1564	1551.97	9.54
51	20	2op	1566	1534.5	9.32	1571	1548.37	12.93	1561	1533.6	7.97	1531	1531	0
		rnd	1569	1554.97	11.41	1571	1559.4	7.39	1572	1559.87	6.67	1570	1552.73	10.27
	50	2op	1563	1540.4	12.29	1569	1552.13	11.23	1567	1550.63	12.94	1531	1531	0
	20	rnd	1570	1552.1	7.47	1567	1557.2	7.27	1570	1561.27	4.89	1567	1552	11.93
		2op	1566	1541.63	13.81	1567	1551.57	12.02	1569	1554.67	11.38	1550	1531.63	3.47

Table A.2467: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1563	1545.6	9.59	1566	1552.9	9.52	1565	1547.37	15.16	1567	1550.73	10.18
		2op	1557	1534.33	8.67	1565	1541.23	12.48	1531	1531	0	1531	1531	0
	50	rnd	1561	1545.53	11.42	1565	1554.3	7.31	1569	1550.47	10.01	1569	1551.57	10.49
51	20	2op	1560	1533.47	7.6	1565	1550.3	11.86	1540	1531.3	1.64	1531	1531	0
		rnd	1565	1548.07	8.7	1567	1553.1	8.07	1566	1554.67	8.31	1567	1549	11.02
	50	2op	1564	1537.4	11.01	1569	1548.73	11.13	1565	1542.53	12.83	1531	1531	0
	20	rnd	1566	1551.7	10.99	1567	1552.37	9.54	1567	1553.63	8.77	1566	1548.1	10.34
		2op	1563	1540.9	13.55	1567	1548.5	11.95	1568	1553.37	10.36	1531	1531	0

Table A.2468: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1568	1552.4	10.93	1569	1558.2	7.35	1569	1551.27	10.78	1566	1545.67	11.58
		2op	1557	1534.33	8.67	1563	1540.5	12.27	1531	1531	0	1531	1531	0
	50	rnd	1573	1555.5	10.29	1570	1557.93	6.77	1568	1554.77	7.59	1567	1546.6	13.18
51	20	2op	1560	1533.47	7.6	1565	1550.8	11.59	1540	1531.3	1.64	1531	1531	0
		rnd	1565	1553.67	7.27	1568	1553.03	9.2	1569	1557.2	6.62	1565	1554.4	7.76
	50	2op	1564	1537.5	11.13	1566	1549.77	12.6	1566	1543.2	14	1531	1531	0
	20	rnd	1565	1554.97	8.61	1568	1558.43	7.33	1569	1559.7	5.91	1570	1557.83	5.55
		2op	1563	1540.9	13.55	1568	1550.93	13.96	1569	1554.37	12.41	1531	1531	0

Table A.2469: f_{50_412} : transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1547.7	9.95	1567	1555.13	9.95	1569	1548.63	9.89	1566	1546.2	13.04
		2op	1569	1538.67	12.63	1573	1553.7	12.47	1531	1531	0	1531	1531	0
	50	rnd	1567	1549.8	9.78	1569	1550.77	10.53	1563	1547.23	12.29	1569	1546.7	11.46
51	20	2op	1570	1540.37	13.31	1569	1543.4	13.84	1531	1531	0	1531	1531	0
		rnd	1567	1555.07	8.61	1569	1558.93	7.42	1569	1552.77	12.35	1570	1551.2	12.33
	50	2op	1564	1551.77	8.32	1566	1555.77	5.58	1561	1533.77	8.48	1531	1531	0
	20	rnd	1566	1553.43	8.63	1566	1553.17	8.72	1568	1548.27	12.82	1565	1544.83	12.66
		2op	1565	1552.73	10.4	1567	1553.8	8.62	1531	1531	0	1531	1531	0

Table A.2470: f_{50_412} : basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1553	10.06	1570	1558.77	5.38	1564	1548.17	9.91	1570	1550.9	10.4
		2op	1569	1538.97	13.1	1573	1550.8	12.53	1531	1531	0	1531	1531	0
	50	rnd	1570	1553.07	7.69	1570	1558.1	8.42	1566	1548	13.9	1560	1545.33	11.21
51	20	2op	1570	1540.6	13.47	1569	1544.7	15.45	1531	1531	0	1531	1531	0
		rnd	1572	1556.4	9.2	1570	1558.33	9.37	1564	1552.6	8.46	1567	1550.87	9.64
	50	2op	1564	1553.2	8.42	1565	1557.07	2.66	1561	1533.77	8.48	1531	1531	0
	20	rnd	1567	1555.53	8.69	1570	1557.4	7.38	1569	1554.6	10.77	1571	1551.27	11.24
		2op	1565	1554.13	10.33	1565	1556.1	7.45	1531	1531	0	1531	1531	0

Table A.2471: f_{50_412} : transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1558	1547.3	8.48	1566	1550.27	8	1567	1547.8	9.26	1565	1548.53	7.4
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1562	1548.17	9.43	1565	1548.8	7.48	1566	1550	9.87	1561	1551.47	6.48
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1559	1545.77	8.34	1565	1551.23	10.45	1567	1550.27	10.03	1559	1548.03	7.21
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1565	1548.63	9.49	1565	1549.8	7.84	1568	1551.37	8.26	1566	1550.27	8.66
		2op	1550	1548.07	0.37	1550	1548.07	0.37	1561	1548.5	2.39	1548	1548	0

Table A.2472: $f_{50.498}$: basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1565	1549.07	9.54	1567	1555.37	6.34	1568	1549.13	9.04	1562	1547.33	8.82
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1563	1550.17	8.35	1565	1553	5.39	1566	1552.23	7.33	1561	1548.5	8.73
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1565	1552.7	6.68	1566	1553.43	6.83	1565	1553.47	7.34	1562	1550.8	8.7
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1561	1549.33	8.41	1564	1551.3	6.79	1568	1553.87	7.29	1564	1550.3	9.51
		2op	1550	1548.07	0.37	1550	1548.13	0.51	1550	1548.07	0.37	1548	1548	0

Table A.2473: $f_{50.498}$: transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1561	1545.77	9.94	1566	1548.3	8.96	1567	1547.53	11.36	1567	1551	8.52
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1558	1546.33	7.64	1565	1548.5	8.41	1565	1547.3	11.87	1564	1550.43	9.27
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
51	20	rnd	1566	1548.83	8.71	1566	1550.17	8.59	1568	1550.6	9.2	1565	1543.83	13.08
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1561	1547.67	8.67	1566	1552.73	5.7	1566	1548.93	9.12	1563	1549.87	7.2
		2op	1548	1548	0	1548	1548	0	1556	1548.6	2.04	1548	1548	0

Table A.2474: $f_{50.498}$: basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1551.23	10.61	1564	1551.83	7.88	1563	1550.73	9.17	1563	1547.27	8.66
		2op	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	50	rnd	1565	1547.77	9.46	1566	1553.17	6.58	1562	1552.43	5.85	1563	1546.9	10.66
51	20	rnd	1548	1548	0	1561	1548.43	2.37	1548	1548	0	1548	1548	0
		2op	1562	1549.63	9.51	1567	1553.03	7.81	1565	1549.73	8.46	1564	1548.8	8.87
	50	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
	20	rnd	1563	1550.43	7.38	1568	1552.5	8.39	1565	1553.6	7.39	1561	1550.5	7.17
		2op	1548	1548	0	1548	1548	0	1550	1548.13	0.51	1548	1548	0

Table A.2475: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1548.47	8.94	1561	1548.57	9.16	1560	1543.6	10.77	1566	1548.53	8.9
		2op	1548	1548	0	1550	1548.07	0.37	1548	1548	0	1548	1548	0
	50	rnd	1564	1547.3	8.08	1565	1551.37	7.9	1565	1549.53	9.82	1564	1546.97	10.68
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1561	1548.77	6.11	1567	1555.3	6.44	1566	1548.5	8.4	1565	1548.07	10.01
	50	rnd	1550	1548.07	0.37	1558	1549.2	1.94	1548	1548	0	1548	1548	0
	20	rnd	1567	1551.33	8.35	1563	1550.3	7.98	1566	1548.77	9	1568	1546.17	10.18
		2op	1550	1548.13	0.51	1550	1548.13	0.51	1548	1548	0	1548	1548	0

Table A.2476: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1553.67	8.95	1565	1551.7	9.86	1568	1547.73	10.51	1565	1548.47	10.21
		2op	1548	1548	0	1550	1548.07	0.37	1548	1548	0	1548	1548	0
	50	rnd	1567	1548.97	7.3	1564	1553.8	6.59	1566	1547.43	10.62	1562	1547.4	9.25
51	20	rnd	1548	1548	0	1548	1548	0	1548	1548	0	1548	1548	0
		2op	1565	1551.07	7.95	1564	1554	8.1	1565	1548.73	9.64	1564	1547.47	11.39
	50	rnd	1550	1548.07	0.37	1550	1548.87	1.01	1548	1548	0	1548	1548	0
	20	rnd	1567	1549.3	7.88	1570	1553.9	8.14	1565	1548.33	8.47	1562	1547.57	9.65
		2op	1550	1548.13	0.51	1550	1548.13	0.51	1548	1548	0	1548	1548	0

Table A.2477: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2762	2739.93	11.6	2780	2743.2	15.47	2758	2736.83	12.41	2767	2735.77	15.51
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2763	2741.9	12.86	2765	2741.13	12.04	2771	2746.7	13.43	2763	2733.1	12.9
51	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2762	2735.7	17.59	2766	2742.03	14.95	2767	2740.5	11.45	2772	2741.27	15
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.2478: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2775	2745.43	12.37	2771	2749.2	10.96	2771	2742.87	15.5	2757	2740.63	10.76
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2759	2742.13	10.71	2762	2745.23	12.69	2764	2741.43	12.38	2765	2742.07	13.61
51	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2768	2741.8	13.04	2771	2748.23	9.55	2767	2741.37	14.88	2764	2736.3	14.14
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2771	2747.8	11.92	2764	2750.23	10.38	2768	2743.5	12.24	2763	2743.03	9.73
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.2479: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2773	2740.47	17.39	2764	2740.67	14.86	2761	2741.47	11.95	2766	2741.37	19.15
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2772	2742.53	11.68	2761	2739.87	15.75	2761	2742.83	11.19	2768	2740.03	15.66
51	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2770	2739.2	13.97	2762	2739.87	15.91	2759	2737.03	15.24	2770	2739.6	18.61
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2775	2739.57	12.79	2772	2740.17	19.26	2767	2742.3	13.43	2759	2741.6	12.01
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0

Table A.2480: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2769	2744.13	18.01	2770	2744.57	13.78	2766	2741.4	13.77	2766	2746.3	10.41
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2746.93	12.22	2769	2745.27	13.67	2765	2742.2	13.94	2763	2743.27	12.24
51	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2743.23	11.12	2779	2748.97	12.74	2760	2743.3	9.91	2762	2740.23	16.01
	20	rnd	2764	2739.47	14.42	2774	2745.33	15.21	2764	2743.63	10.75	2767	2740.3	14.69
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2743.23	11.12	2779	2748.97	12.74	2760	2743.3	9.91	2762	2740.23	16.01
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2743.23	11.12	2779	2748.97	12.74	2760	2743.3	9.91	2762	2740.23	16.01
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2743.23	11.12	2779	2748.97	12.74	2760	2743.3	9.91	2762	2740.23	16.01

Table A.2481: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2765	2740.83	13.99	2767	2743	14.82	2767	2744.6	14.09	2770	2741.4	13.37
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2773	2739.73	12.51	2766	2743.4	11.52	2772	2742.53	15.67	2763	2743.23	11.83
51	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2767	2741.67	14.68	2765	2740.63	11.11	2768	2738.93	17.31	2773	2740.37	14.28
	20	rnd	2767	2741.67	14.68	2765	2740.63	11.11	2768	2738.93	17.31	2773	2740.37	14.28
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2759	2737.9	18.6	2759	2739.83	11.53	2769	2740.83	15.59	2773	2742.83	13.22
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2759	2737.9	18.6	2759	2739.83	11.53	2769	2740.83	15.59	2773	2742.83	13.22

Table A.2482: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2766	2745.77	12.68	2771	2743.9	13.76	2760	2740.33	12.4	2765	2738.1	14.19
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2763	2741.57	12.93	2766	2742.73	14.41	2761	2743.03	10.45	2763	2736.83	13.97
51	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2769	2747.43	12.96	2766	2748.23	9.58	2766	2744.27	12.45	2768	2743.83	15.24
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2769	2749.33	12.05	2763	2745.63	12.13	2764	2744.3	12.49	2761	2739.5	12.81
	20	rnd	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
		2op	2762	2762	0	2762	2762	0	2762	2762	0	2762	2762	0
	50	rnd	2769	2749.33	12.05	2763	2745.63	12.13	2764	2744.3	12.49	2761	2739.5	12.81

Table A.2483: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2834	2810.1	14.44	2838	2814.1	13.2	2845	2809.4	16.84	2835	2808.7	12.44
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2837	2813.87	16.35	2830	2811.4	14.13	2834	2807.53	17.03	2837	2805.97	14.87
51	20	rnd	2834	2809.7	14.7	2842	2815.6	9.57	2844	2813.63	12.79	2837	2809.1	16.26
		2op	2804	2804	0	2810	2806.8	3.04	2810	2804.6	1.83	2804	2804	0
	50	rnd	2827	2808.7	10.57	2837	2811.73	18.95	2834	2812.4	12.84	2829	2806.13	12.85
		2op	2804	2804	0	2810	2806.8	3.04	2810	2805.6	2.7	2804	2804	0

Table A.2484: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2810.7	14.63	2843	2814.7	14.35	2837	2814.13	15.34	2839	2813.9	12.79
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2837	2815.67	11.85	2838	2817.97	8.92	2840	2812.57	12.91	2835	2811.07	12.23
51	20	rnd	2831	2813.4	12.44	2835	2819.47	12.86	2835	2810.73	18.79	2844	2811.87	12.11
		2op	2804	2804	0	2810	2806.8	3.04	2810	2804.6	1.83	2804	2804	0
	50	rnd	2837	2814.17	10.49	2838	2818.4	13.56	2832	2815.33	10.56	2842	2815.47	13.99
		2op	2804	2804	0	2810	2806.8	3.04	2810	2805.6	2.7	2804	2804	0

Table A.2485: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2827	2813.33	10.91	2830	2810.43	15.93	2838	2810.03	16.83	2838	2809.8	16.1
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2828	2813.37	8.71	2829	2813.1	9.13	2846	2812.37	16.9	2845	2813.27	13.93
51	20	rnd	2833	2807.73	14.14	2832	2812.53	14.3	2838	2810.37	13.69	2838	2814.4	10.51
		2op	2804	2804	0	2810	2806	2.88	2810	2804.4	1.52	2804	2804	0
	50	rnd	2842	2808.77	12.38	2835	2811.57	16.53	2838	2813.83	15.64	2836	2813.47	11.78
		2op	2804	2804	0	2810	2807.2	3.04	2810	2805.4	2.58	2804	2804	0

Table A.2486: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2836	2814.27	12.29	2837	2810.37	15.64	2838	2814.8	14.12	2837	2814.8	10.91
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2839	2815.6	12.92	2840	2817.7	10.38	2840	2814.5	14.17	2843	2812.33	11.7
51	20	rnd	2837	2815.13	13.2	2849	2820.9	12.75	2836	2812.9	13.4	2833	2810.93	14.23
		2op	2804	2804	0	2810	2806	2.88	2810	2804.4	1.52	2804	2804	0
	50	rnd	2839	2812	15.11	2838	2819.33	12.65	2842	2815.93	12.49	2838	2812.47	17.08
	20	rnd	2836	2814.27	12.29	2837	2810.37	15.64	2838	2814.8	14.12	2837	2814.8	10.91
		2op	2804	2804	0	2810	2804.4	1.52	2804	2804	0	2804	2804	0
	50	rnd	2839	2815.6	12.92	2840	2817.7	10.38	2840	2814.5	14.17	2843	2812.33	11.7

Table A.2487: f_{100_415} : transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2837	2810.47	16.11	2833	2807.57	17.14	2833	2813.1	12.89	2833	2809.67	15.24
		2op	2804	2804	0	2810	2804.2	1.1	2804	2804	0	2804	2804	0
	50	rnd	2839	2809.97	15.41	2839	2811.97	14.07	2840	2811.47	11.83	2837	2811.77	12.66
51	20	rnd	2836	2811.67	12.88	2842	2812.3	13.18	2839	2809.77	17.31	2835	2810.37	13.57
		2op	2804	2804	0	2810	2806.2	2.94	2804	2804	0	2804	2804	0
	50	rnd	2836	2812.2	9.99	2838	2807.57	14.5	2836	2814.77	10.4	2847	2811.97	15.89
	20	rnd	2836	2811.67	12.88	2842	2812.3	13.18	2839	2809.77	17.31	2835	2810.37	13.57
		2op	2804	2804	0	2810	2806.2	2.94	2804	2804	0	2804	2804	0
	50	rnd	2839	2809.97	15.41	2839	2811.97	14.07	2840	2811.47	11.83	2837	2811.77	12.66

Table A.2488: f_{100_415} : basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2815.53	13.98	2838	2812	13.62	2837	2811.47	13.81	2825	2805.8	13.12
		2op	2804	2804	0	2810	2806	2.88	2804	2804	0	2804	2804	0
	50	rnd	2841	2815.8	13.13	2842	2815.8	14.09	2835	2805.03	15.11	2835	2814.8	11.06
51	20	rnd	2835	2815.57	11.63	2838	2818.3	14.49	2835	2811.67	13.78	2842	2814.87	15.36
		2op	2804	2804	0	2810	2806.4	2.99	2804	2804	0	2804	2804	0
	50	rnd	2842	2817.5	13.96	2838	2819.07	12.27	2834	2814	12.69	2845	2811.83	16.74
	20	rnd	2843	2815.53	13.98	2838	2812	13.62	2837	2811.47	13.81	2825	2805.8	13.12
		2op	2804	2804	0	2810	2806	2.88	2804	2804	0	2804	2804	0
	50	rnd	2841	2815.8	13.13	2842	2815.8	14.09	2835	2805.03	15.11	2835	2814.8	11.06

Table A.2489: f_{100_415} : transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2709	2682.07	13.94	2710	2683.53	14.76	2714	2686.57	14.43	2702	2680.13	14.46
		2op	2700	2690.13	4.28	2698	2689.9	3.98	2687	2687	0	2687	2687	0
	50	rnd	2700	2683.37	13.28	2710	2684.37	17.53	2716	2683.37	11.39	2708	2687.77	11.23
51	20	rnd	2706	2690.83	5.23	2702	2695.63	3.05	2695	2687.27	1.46	2687	2687	0
		2op	2706	2683.07	12.72	2711	2685.7	15.65	2715	2687.43	14.11	2706	2684.3	10.92
	50	rnd	2697	2691.2	4.05	2700	2694.7	3.71	2699	2689.97	4.41	2687	2687	0
	20	rnd	2708	2678.43	14.62	2713	2683.13	18.89	2710	2684.67	12.44	2710	2682.93	13.94
		2op	2698	2692.1	4	2702	2695.67	1.75	2698	2693.67	2.96	2687	2687	0

Table A.2490: $f_{100.512}$: basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2682.97	12.42	2718	2691.53	13.91	2705	2686.83	11.3	2709	2684.5	13.12
		2op	2700	2690.13	4.28	2698	2689.9	3.98	2687	2687	0	2687	2687	0
	50	rnd	2708	2685.5	12.61	2708	2688.77	10.34	2704	2681.97	13.66	2710	2683.67	13.6
51	20	rnd	2706	2690.83	5.23	2702	2695.63	3.05	2695	2687.27	1.46	2687	2687	0
		2op	2712	2684.37	13.37	2701	2689	8.37	2705	2687.1	12.98	2709	2683.37	10.8
	50	rnd	2697	2691.2	4.05	2700	2694.7	3.71	2699	2689.97	4.41	2687	2687	0
	20	rnd	2711	2691.03	14.01	2716	2690.67	11.79	2707	2686.33	14.16	2699	2680.3	15.67
		2op	2698	2692.1	4	2702	2695.67	1.75	2698	2693.67	2.96	2687	2687	0

Table A.2491: $f_{100.512}$: transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2700	2678.9	11.61	2713	2685.23	15.38	2710	2684.07	12.28	2706	2684.17	14.9
		2op	2699	2690.37	4.11	2699	2690.17	4.41	2687	2687	0	2687	2687	0
	50	rnd	2703	2684.07	11.43	2703	2683.47	10.51	2718	2683.87	12.34	2709	2682.33	14.12
51	20	rnd	2698	2690.8	4.22	2706	2694.67	4.2	2698	2687.37	2.01	2687	2687	0
		2op	2704	2679.5	12.68	2708	2685.97	13.7	2704	2682.23	13.35	2698	2678.97	14.18
	50	rnd	2700	2691	4.5	2700	2694.47	3.23	2704	2690.27	5.03	2687	2687	0
	20	rnd	2703	2679.27	13.84	2708	2685.97	14.42	2707	2687.6	12.16	2707	2687.33	12.29
		2op	2698	2691.83	4.07	2700	2695.93	1.51	2700	2693.23	4.45	2687	2687	0

Table A.2492: $f_{100.512}$: basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2713	2686.97	13.79	2706	2690.63	10.92	2707	2688.2	9.3	2703	2685.03	13.53
		2op	2699	2690.37	4.11	2699	2690.17	4.41	2687	2687	0	2687	2687	0
	50	rnd	2702	2685.6	11.51	2712	2693.97	11.24	2703	2686.97	12.54	2709	2682.37	13.88
51	20	2op	2698	2690.8	4.22	2706	2694.67	4.2	2698	2687.37	2.01	2687	2687	0
		rnd	2709	2688	11.42	2708	2685.97	11.7	2709	2684.17	14.51	2717	2685.5	16.35
	50	2op	2700	2691	4.5	2700	2694.47	3.23	2704	2690.27	5.03	2687	2687	0
	20	rnd	2708	2683.97	11.42	2712	2691.1	12.73	2705	2684.2	12.68	2703	2684.17	16.39
		2op	2698	2691.83	4.07	2700	2695.93	1.51	2700	2693.23	4.45	2687	2687	0

Table A.2493: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2705	2678.3	11.29	2708	2684.3	13.05	2707	2687.03	11.52	2711	2689.1	16.7
		2op	2700	2691.97	4.33	2700	2690.83	4.8	2687	2687	0	2687	2687	0
	50	rnd	2702	2682.13	10.54	2706	2684.3	13.31	2706	2686.33	13.65	2711	2686.7	13
51	20	2op	2698	2694.3	2.53	2698	2691.5	4.39	2695	2687.27	1.46	2687	2687	0
		rnd	2700	2680.23	12.65	2704	2681.8	14.06	2705	2688.47	8.96	2713	2684.53	12.4
	50	2op	2701	2694.63	3.47	2701	2695.8	2.48	2697	2687.8	2.5	2687	2687	0
	20	rnd	2698	2684	11.47	2708	2685.73	13.76	2715	2687.6	12.83	2716	2685.53	14.8
		2op	2696	2695.07	0.25	2699	2693.37	3.45	2695	2688	2.61	2687	2687	0

Table A.2494: f_{100_512} : basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2707	2689.6	10.57	2714	2691.2	10.81	2710	2684.97	14.67	2701	2682.2	15.84
		2op	2700	2691.97	4.33	2700	2690.83	4.8	2687	2687	0	2687	2687	0
	50	rnd	2711	2688.77	13.87	2708	2686.67	15.7	2703	2684.63	13.24	2711	2685.67	11.35
51	20	2op	2698	2694.3	2.53	2698	2691.5	4.39	2695	2687.27	1.46	2687	2687	0
		rnd	2706	2686.1	12.67	2711	2689.9	10.6	2711	2686.83	15.97	2709	2683.83	12.16
	50	2op	2700	2694.97	3.08	2708	2696.93	3.38	2697	2687.8	2.5	2687	2687	0
	20	rnd	2709	2685.2	15.11	2703	2682.27	13.93	2710	2686.9	11.34	2713	2686.7	14.63
		2op	2696	2695.13	0.35	2700	2694	3.7	2695	2688	2.61	2687	2687	0

Table A.2495: f_{100_512} : transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17870	17791.77	36.7	17886	17803	34.56	17887	17788.53	47.04	17845	17779.9	44.85
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17906	17800.47	45	17856	17799.73	35.11	17899	17799.47	35.64	17878	17785.33	46.37
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17899	17802.9	38.21	17871	17798.8	34.96	17866	17793.8	42.53	17860	17796.47	36.81
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17859	17792.17	35.18	17847	17781.93	38.19	17921	17808.7	37.78	17876	17791	48.27
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2496: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17882	17786.2	42.05	17841	17796.1	32.29	17871	17789.2	39.13	17863	17792.4	41.13
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17871	17807.37	32.64	17878	17798.63	36.52	17877	17803.53	41.03	17855	17782.07	37.76
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17857	17791.1	41.11	17876	17812.03	35.42	17834	17786.23	41.81	17848	17785.43	39.5
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17866	17801.43	38.79	17869	17792.57	39.73	17878	17799.2	47.72	17889	17802.93	49.79
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2497: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17880	17792.03	40.22	17880	17804.97	33.95	17886	17787.7	45.68	17882	17796.63	40.29
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17861	17798.4	33.86	17850	17798.53	31.82	17884	17790.37	44.28	17877	17796.9	45.64
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17897	17797.2	39.64	17861	17796.23	35.58	17866	17793.8	41.1	17863	17800.83	36.76
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
	50	rnd	17921	17803.57	41.35	17876	17793.77	44.69	17866	17783	44.78	17893	17808.33	41.73
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2498: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17844	17790.5	29.01	17910	17801.73	44	17880	17794.73	46.31	17887	17806.9	31.33
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17886	17803.37	36.65	17879	17804.57	36.42	17882	17815.67	30.07	17843	17789.63	32.32
51	20	rnd	17925	17798.57	40.59	17868	17797	43.42	17887	17792.33	47.55	17868	17796.07	36.27
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17853	17796.63	33.31	17861	17801.5	33.06	17898	17808.4	30.79	17833	17792.77	34.09
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2499: $f_{508.354}$: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17853	17797.6	40.81	17877	17789.93	35.25	17843	17788.17	32.32	17862	17793.07	43.34
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17868	17797.23	44.88	17883	17806.77	36.28	17866	17800.07	29.95	17881	17793.03	46.05
51	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17841	17789.63	38.56	17834	17782.23	31.52	17904	17785.93	43.57	17883	17795.3	43.21
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17899	17797.63	44.4	17851	17800.33	31.84	17861	17803.53	32.55	17872	17798.73	37.59
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17899	17797.63	44.4	17851	17800.33	31.84	17861	17803.53	32.55	17872	17798.73	37.59
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2500: $f_{508.354}$: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17879	17798.03	37.31	17899	17790.47	53.04	17880	17790.57	40.15	17866	17795.7	37.21
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17865	17800.37	27.98	17859	17809.8	30.08	17901	17814.67	40.25	17888	17806.53	43.87
51	20	rnd	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17865	17804.77	32.95	17862	17802.3	27.88	17849	17797	36.03	17906	17810.43	39.77
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
51	20	rnd	17836	17782.27	32.19	17874	17789.47	36.63	17853	17790.17	31.19	17867	17801.9	37.22
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0
		50	17836	17782.27	32.19	17874	17789.47	36.63	17853	17790.17	31.19	17867	17801.9	37.22
		2op	17797	17797	0	17797	17797	0	17797	17797	0	17797	17797	0

Table A.2501: $f_{508.354}$: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22166	22068.7	38.72	22124	22045.63	51.44	22139	22066.67	39.99	22154	22049.23	46.84
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22137	22063.8	53.57	22180	22076.07	47.99	22141	22059.43	50.97	22129	22064.27	35.39
51	20	rnd	22138	22068.4	38.27	22178	22072.13	52.6	22133	22064.53	40.4	22123	22064.33	41.55
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22175	22065.27	54.99	22162	22065.77	38.94	22146	22061.5	42.27	22171	22066.8	48.14
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2502: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22138	22071.3	45.43	22170	22064.8	43.43	22183	22056.63	48.21	22133	22060.53	36.71
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22167	22082.97	39.81	22143	22070.47	43.39	22161	22075.33	47.57	22170	22080.4	39.39
51	20	rnd	22164	22082	51.82	22146	22066.33	34.85	22170	22065.7	44.12	22193	22066.6	54.18
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22137	22069.23	43.42	22143	22057.6	48.01	22139	22065.53	46.61	22202	22084.37	46.51
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2503: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22163	22078.77	47.16	22160	22080.27	45.12	22130	22050	42.62	22133	22053.47	42.87
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22162	22057	46.54	22134	22058.33	42.67	22148	22055.83	45.7	22135	22063.97	41.79
51	20	rnd	22192	22068.07	47.16	22155	22073.33	51.26	22146	22065.43	42.14	22154	22061.8	50.3
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22148	22064.6	43.2	22160	22058.07	45.14	22168	22067.17	35.91	22168	22071.2	43.66
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2504: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22140	22059.03	36.75	22184	22082.97	46.58	22146	22057.5	46.54	22145	22065.43	42.4
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22141	22068.53	46.9	22145	22060.7	37.7	22155	22067.73	51.82	22161	22070.83	43.84
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22144	22071.83	43.05	22157	22073.23	43.72	22183	22055.93	44.98	22144	22067.37	43.53
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22120	22066.67	35.27	22136	22065.27	45.87	22143	22047	58.62	22155	22060.2	46.45
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2505: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22164	22058.03	51.71	22155	22063.5	43.82	22137	22065.53	38.39	22220	22069	53.22
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22136	22061.77	35.82	22128	22063.03	44.63	22176	22077.53	40.82	22157	22060.33	47.29
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22142	22076.33	44.3	22158	22068.6	49.43	22182	22087.17	43.58	22146	22066.73	47.13
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22128	22042.77	54.62	22169	22065.13	39.38	22176	22065.6	46.62	22148	22060.73	48.87
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2506: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22178	22084.53	48.81	22150	22075.37	52.84	22203	22078.03	50.14	22133	22049.13	43.7
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22163	22065.93	48.08	22153	22060.87	52.35	22130	22048.6	45.97	22128	22056.87	47.98
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
51	20	rnd	22199	22068.6	47.82	22199	22068.6	47.82	22143	22067.33	44.74	22200	22068.97	60.78
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0
	50	rnd	22155	22076.93	44.65	22155	22078.97	42.31	22154	22072.8	43.81	22166	22062.43	45.63
		2op	22084	22084	0	22084	22084	0	22084	22084	0	22084	22084	0

Table A.2507: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24735	24674.03	43.38	24731	24659.37	49.11	24762	24667.8	51.36	24741	24671.9	43.3
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24754	24651.7	60.03	24775	24656.33	39.57	24732	24663.2	40.92	24764	24683.3	43.68
51	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24808	24662.53	65.95	24731	24665.37	34.7	24790	24681.97	49.91	24747	24658.4	48.67
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24742	24655.17	49.91	24767	24664.9	48.45	24754	24658.63	51.39	24746	24671.27	47.59
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24742	24655.17	49.91	24767	24664.9	48.45	24754	24658.63	51.39	24746	24671.27	47.59
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24742	24655.17	49.91	24767	24664.9	48.45	24754	24658.63	51.39	24746	24671.27	47.59

Table A.2508: f_{737_355} : basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24737	24662.73	44.97	24747	24639.5	56.87	24752	24672.57	49.29	24776	24660.43	50.57
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24759	24667.47	51.05	24771	24656.47	51.22	24728	24664.8	39.58	24747	24655.83	41.04
51	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24782	24673.73	50.69	24791	24669.97	50.42	24744	24664.77	52.91	24746	24655.37	44.26
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24777	24664.43	53.11	24746	24674.87	36.95	24795	24653.17	57.01	24746	24653.8	46.42
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24777	24664.43	53.11	24746	24674.87	36.95	24795	24653.17	57.01	24746	24653.8	46.42

Table A.2509: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24753	24667.9	54.58	24771	24682.13	50.59	24762	24668.57	53.11	24784	24665.27	51.19
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24729	24661.23	40.52	24744	24670.93	41.89	24788	24661.23	48.81	24754	24669.67	41.53
51	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24747	24667.6	49.15	24788	24678.7	46.57	24781	24663.57	53.57	24734	24666.8	46.16
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24745	24664.7	49.48	24811	24683.17	62.38	24812	24659	53.61	24736	24649.9	41.68
	20	rnd	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24745	24664.7	49.48	24811	24683.17	62.38	24812	24659	53.61	24736	24649.9	41.68

Table A.2510: f_{737_355} : basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24770	24680.73	38.89	24744	24665.7	55.27	24752	24660.63	59.78	24772	24673.63	46.01
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24752	24663.53	50.09	24727	24665.1	38.52	24771	24647.43	62.5	24778	24664.53	54.67
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24763	24674.6	47.46	24770	24665.4	53.88	24800	24659.97	49.22	24746	24662	54.21
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24775	24683.23	49.99	24730	24671.83	38.58	24767	24679.8	42.61	24760	24675.63	53.21
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.2511: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24809	24674.27	43.08	24787	24666.63	43.53	24750	24659.13	57.33	24796	24681.93	53.35
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24727	24646.43	41.62	24742	24662.17	45.47	24771	24656.37	59.25	24750	24666.93	45.65
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24778	24664.87	53.45	24755	24674.7	51.6	24775	24657.97	49.92	24729	24642.2	48.06
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24749	24661.1	46	24778	24668.43	44.53	24791	24672.3	52.43	24757	24665.63	49.5
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.2512: f_{737_355} : basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24757	24675.83	47.13	24732	24657.53	41.06	24720	24640.67	46.92	24754	24657.37	43.04
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24739	24651.23	53.09	24732	24652.4	45.58	24759	24657.27	56.2	24751	24675.67	32.95
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
51	20	rnd	24782	24672.13	54.39	24782	24672.13	54.39	24766	24673.33	52.29	24797	24667.97	61.86
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0
	50	rnd	24754	24674.3	41.95	24754	24674.3	41.95	24757	24650.8	53.14	24734	24661.07	34.91
		2op	24670	24670	0	24670	24670	0	24670	24670	0	24670	24670	0

Table A.2513: f_{737_355} : transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48003	47857.47	99.4	47998	47840.37	91	47965	47832.73	69.6	47964	47815.27	76.6
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47997	47846.03	83.05	47970	47854.77	63.47	47983	47837.47	66.1	47994	47866.53	59.53
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47959	47815.17	67.55	47973	47863.53	67.3	48090	47831.73	108.29	47999	47810	102.62
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	20	rnd	48012	47852.37	88.23	48002	47834.47	75.25	47957	47856.5	71.38	47979	47846.3	79.58
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2514: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47970	47857.6	61.56	47974	47860.57	83.4	47985	47841.37	83.33	48016	47857.93	80.98
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48057	47894.67	84.9	47986	47856.03	77.18	48017	47836	76.2	48025	47848.67	70.98
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	48067	47877.27	70.49	48067	47868.37	89.96	47960	47867.07	67.08	48024	47849.87	72.61
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	20	rnd	48042	47865.43	71.56	48096	47840.37	97.09	48030	47855.27	79.85	48029	47847.23	90.2
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2515: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47993	47850.57	75.47	48010	47877.1	74.91	48003	47828.13	114.68	48041	47867.13	74.19
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47982	47856.47	81.14	48081	47850.5	73.37	48033	47860.53	87.26	47993	47858.43	86.78
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	48059	47876	88.89	47978	47843.5	76.05	47970	47867	63.03	47996	47857.13	84.33
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	20	rnd	48016	47851.97	74.44	47948	47848.83	67.03	48029	47825.8	63.68	48027	47845.27	96.44
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2516: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48033	47858.03	76.76	48077	47848.13	100.18	47967	47832.2	79.98	47971	47849.3	83.01
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48000	47861.3	84.69	48025	47861.37	72.3	48032	47823.83	101.51	48043	47863.1	87.03
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48051	47907.73	77.27	47993	47864.2	76.6	47960	47831.37	75.98	48098	47871.6	92.92
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48021	47851.93	80.68	47990	47861.6	68.72	47940	47824.3	60.56	47979	47849.33	73.33
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2517: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48067	47865.93	79.66	47977	47860.63	76.74	47978	47866.5	67.57	47976	47854.8	59.08
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47965	47854.07	64.58	47957	47855.57	70.13	48090	47887.67	82.34	47966	47838.6	63.15
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48092	47864.67	79.98	48092	47864.67	79.98	48112	47844.97	110.85	47945	47840.17	60.56
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47995	47860.03	93.25	47990	47844.83	80.31	48015	47871.93	64.9	48039	47866.63	91.73
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2518: f_{1343_354} : basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48002	47844.03	68.81	48002	47844.03	68.81	47998	47865.57	70.59	48008	47838.6	81.28
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47964	47864.73	63.01	47964	47864.73	63.01	47983	47848.3	68.07	47998	47858.77	61.59
51	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48035	47861	70.01	48035	47861	70.01	47962	47856.27	61.44	47942	47832.03	60.48
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	48042	47841.27	77.04	48042	47841.27	77.04	47976	47809.13	85.75	47991	47810.1	89.97
	20	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
		2op	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0
	50	rnd	47838	47838	0	47838	47838	0	47838	47838	0	47838	47838	0

Table A.2519: f_{1343_354} : transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56093	55893.87	103.21	56148	55945	80.61	56182	55942.17	98.7	56047	55916.13	85
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56152	55916	105.66	56131	55959.53	72.93	56110	55936.77	76.84	56051	55898.37	77.95
51	20	rnd	56065	55928.83	83.98	56104	55955.53	72.05	56120	55945.33	80.11	56077	55903.77	83.29
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56030	55909.7	59.99	56057	55941.67	87.74	56083	55909.87	72.49	56168	55943.4	116.23
	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56030	55909.7	59.99	56057	55941.67	87.74	56083	55909.87	72.49	56168	55943.4	116.23
	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56030	55909.7	59.99	56057	55941.67	87.74	56083	55909.87	72.49	56168	55943.4	116.23
	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56030	55909.7	59.99	56057	55941.67	87.74	56083	55909.87	72.49	56168	55943.4	116.23

Table A.2520: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56133	55944.5	86.47	56108	55940.9	94.81	56055	55922.33	79.46	56131	55911.13	113.25
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56124	55930.8	81.75	56130	55927.27	102.67	56098	55902.5	89.02	56205	55937.6	104.6
51	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	56100	55935.07	82.69	56086	55939.1	83.46	56147	55900.13	85.57	56088	55925.9	71.94
	50	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	20	rnd	56151	55970.2	79.4	56144	55959.33	88.91	56105	55913.97	85.75	56045	55929.27	67.48
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56151	55970.2	79.4	56144	55959.33	88.91	56105	55913.97	85.75	56045	55929.27	67.48
	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56151	55970.2	79.4	56144	55959.33	88.91	56105	55913.97	85.75	56045	55929.27	67.48

Table A.2521: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56139	55909.33	104.41	56107	55949.2	80.46	56020	55898.47	69.87	56155	55955.43	91.27
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56114	55947.03	86.19	56147	55923.97	84.33	56086	55908.3	84.58	55996	55914.43	64.7
51	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	56108	55933.53	89.43	56092	55926.57	82.01	56091	55914.23	75.41	56109	55929.4	102.67
	50	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	20	rnd	56120	55946.63	82.67	56170	55908.63	89.4	56083	55945.7	60.2	56137	55959.2	78.54
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56120	55946.63	82.67	56170	55908.63	89.4	56083	55945.7	60.2	56137	55959.2	78.54
	20	rnd	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56120	55946.63	82.67	56170	55908.63	89.4	56083	55945.7	60.2	56137	55959.2	78.54

Table A.2522: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56168	55962.37	104.1	56088	55941.73	88.05	56080	55927.8	74.91	56125	55936.5	96.18
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56172	55960.07	92.73	56066	55931.37	76.16	56083	55955.5	81.91	56029	55916	87.14
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56099	55953.03	78.58	56098	55965	83.41	56168	55952.97	96.98	56068	55935.03	84.74
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56099	55933.73	76.18	56177	55936	89.32	56073	55933.33	80.87	56092	55925.3	73.22
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.2523: f_{1577_354} : transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56143	55942.57	98.83	56139	55931.73	78.41	56100	55948.57	85.87	56075	55925.97	87.59
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56069	55937.1	100.55	56076	55938.93	75.2	56077	55947.6	69.34	56159	55938.77	86.67
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56059	55947.2	70.21	56059	55947.2	70.21	56060	55940.7	70.49	56136	55945.4	84.8
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56146	55944	88.23	56146	55942.13	75.78	56175	55940	97.49	56091	55929.03	98.32
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.2524: f_{1577_354} : basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56123	55919.67	87.96	56123	55919.67	87.96	56129	55913.2	84.72	56070	55951.27	71.9
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56195	55923.87	111.28	56195	55923.87	111.28	56103	55914.03	84.23	56053	55928.33	69.87
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
51	20	rnd	56193	55940.7	96.72	56193	55940.7	96.72	56091	55940.33	90.3	56061	55941.63	69.33
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0
	50	rnd	56062	55915.77	74.41	56062	55915.77	74.41	56074	55928.83	69.66	56115	55956.57	79.61
		2op	55861	55861	0	55861	55861	0	55861	55861	0	55861	55861	0

Table A.2525: f_{1577_354} : transRRGA+IM – Suspected Optimal is 57373

Results With No Post Optimization and Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46952	46627.5	174.15	46722	45979.97	428.48	42766	41850.17	481.3	41896	41303.23	319.16
		2op	46963	46691.4	172.17	46524	46022.03	321.84	43079	42034.97	541.16	42469	41483.7	378.66
	50	rnd	47094	46609.6	182.34	46838	46368.8	274.31	44312	43381.2	657.28	41889	41110.13	405.2
51	20	rnd	46955	46661.43	179.15	47057	46406.5	302.8	44411	43284.67	593.82	42314	41391.07	400.61
		2op	47029	46826.8	137.8	46987	46746.1	190.46	46020	45316.4	399.62	43803	43015.43	332.68
	50	rnd	47182	46892.8	175.59	47013	46823.2	118.59	46207	45401.33	408.52	43750	43236.47	302.7
	20	rnd	47107	46845.83	159.37	47124	46821.7	191.16	46500	46112.43	279.86	43674	42792.5	306.73
		2op	47043	46836.2	136.72	46985	46826.67	112.73	46772	46075.77	320.64	43660	42827.8	335.22

Table A.2526: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47307	47098.3	127.98	47218	47020.8	127.42	47240	46820.07	180.5	46343	45576.93	380.12
		2op	47457	47215.13	110.13	47381	47106.07	122.83	47134	46873.07	151.45	46387	45786.33	307.69
	50	rnd	47279	47091.7	120.24	47385	47145.2	121.78	47364	46967.2	145.73	46864	46394.43	261.08
51	20	rnd	47395	47180.77	95.61	47330	47211.3	63.39	47258	47032.23	118.61	46793	46317.33	303.53
		2op	47350	47176.23	110.44	47363	47258.83	63.49	47337	47062.7	131.13	47103	46710.43	184.98
	50	rnd	47433	47233.4	78.71	47433	47294.1	64.63	47269	47094.57	113.26	47066	46767.13	162.79
	20	rnd	47291	47166.03	86.71	47422	47273.13	89.54	47323	47083.37	129.13	47303	46887.2	160.72
		2op	47313	47194.67	72.85	47430	47308.77	81.05	47299	47131.13	93.75	47196	46929.07	146.72

Table A.2527: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	46935	46646.1	181.39	46314	45704.13	357.55	42882	41860.7	550.98	42035	41253.33	376.43
		2op	47014	46706.03	186.29	46548	45961.53	341.81	42739	41936.1	445.02	42347	41397.57	464.78
	50	rnd	47135	46692.1	176.12	46534	46225.8	233.87	44360	43053.73	678.56	41901	41135.87	367.21
51	20	rnd	47071	46718.53	186.93	46908	46410.73	281.02	44688	43268.57	683.16	42232	41245.43	414.53
		2op	47012	46864.5	108.95	47064	46746.07	139.39	46096	45305.3	359.08	43837	43059.93	311.01
	50	rnd	47125	46851.77	167.73	47069	46794.33	198.54	46129	45384.47	526.56	43676	43146.87	324.69
	20	rnd	47177	46787.23	178.69	47036	46798.87	133.44	46472	46025.73	266.71	43719	42686.97	413.31
		2op	47126	46825.23	133.41	47113	46835.83	159.98	46577	46027.5	342.33	43591	42795.83	296.51

Table A.2528: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47282	47129.73	98.16	47265	47035	135.07	47136	46840.73	131.3	46265	45509.93	441.36
		2op	47396	47224.5	105.31	47377	47150.1	99.38	47204	46881.9	159.98	46442	45540.6	442.21
	50	rnd	47337	47110.23	120.05	47307	47118.97	115.04	47105	46880.17	152.15	46833	46259.43	309.73
51	20	rnd	47361	47182.37	113.99	47390	47231.4	93.97	47236	47048.63	149.1	46743	46189	319.21
		2op	47300	47157.5	84.53	47391	47237	88.61	47237	47065.57	107.92	47086	46720.1	185.84
	50	rnd	47399	47216.97	101.78	47389	47292.73	70.93	47355	47099.17	111.43	46927	46711.53	164.33
	20	rnd	47301	47141.57	108.94	47440	47291.37	82.01	47279	47073.9	120.73	47200	46878.1	195.8
		2op	47386	47231.47	85.76	47413	47314.83	64.61	47330	47164.9	102	47114	46933.6	140.85

Table A.2529: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47296	47037.5	91.48	47196	46961.33	105.35	43843	42740.37	751.28	42143	41233.5	437.71
		2op	47174	47071.87	74.76	47185	47056.53	100.02	44276	42797.93	746.08	42084	41286.17	333.59
	50	rnd	47215	47011.07	97.82	47222	46984.17	106.78	44506	43282.97	778.53	41864	41119.1	364.8
51	20	rnd	47202	47034.6	98.93	47170	47045.33	103.86	44754	43491.8	802.34	41962	41277.67	310.29
		2op	47340	47200.07	65.54	47372	47228.2	72.18	46868	46139.07	451.39	43615	42885.5	373.94
	50	rnd	47350	47285	41.78	47383	47283.87	54.29	46961	46192.7	591.79	43416	43028.83	203.1
	20	rnd	47365	47269.1	55.55	47398	47252.77	77.27	47003	46405.73	490.44	43339	42527.3	365.03
		2op	47381	47300.27	55.79	47384	47296.23	47.65	47042	46562.83	316.88	43372	42696.13	355.75

Table A.2530: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47346	47170.67	94.37	47323	47120.43	97.43	47123	46834.43	142.25	46019	45194	365.89
		2op	47377	47271.47	59.49	47381	47243.33	74.37	47210	46891.83	159.61	45998	45291.47	375.21
	50	rnd	47406	47215.73	98.66	47385	47188.93	101.26	47204	47013.37	102.01	46514	46053.3	309.87
51	20	rnd	47435	47308.2	72.73	47433	47286.37	73.75	47294	47015.6	136.15	46512	46035	270.18
		2op	47359	47262.8	50.86	47340	47243	54.32	47348	47163.2	102.76	46890	46537.7	185.75
	50	rnd	47390	47334.1	34.17	47389	47323.9	34.09	47358	47212.9	60.64	46876	46572.5	194.71
	20	rnd	47412	47300.03	52.84	47395	47274	56.17	47279	47121.67	75.5	47067	46806.37	144.58
		2op	47443	47360.1	28.27	47402	47335.77	32.2	47298	47223.27	44.02	47019	46797.33	132.21

Table A.2531: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147967	145196.33	1360.72	144290	141459.33	1912.03	127239	116057.23	6793.87	82728	76201.1	3674.7
		2op	146629	144560.8	1052.37	145370	141612.5	2072.94	123835	116552.2	5665.39	82009	75566.37	3384.98
	50	rnd	147250	144745.93	1141.46	145505	143306.2	1480.46	136774	129567.6	4220.4	98544	84971.87	5793.57
51	20	rnd	147250	144120.5	1161.12	145445	143281.5	1239.41	137197	130619.13	3142.92	94891	84878.93	5323.63
		2op	149268	146563.63	998.43	148553	146163.1	967.58	144281	139263.03	2596.24	115571	105885.37	5275.15
	50	rnd	147351	146097.3	931.74	147475	145545.07	1163.1	143008	138233.9	3231.96	117165	105334.67	4141.83
	20	rnd	147918	146127.13	1049.75	147505	145733.2	960.97	146567	142937.37	1920.72	127817	121278	5719.73
		2op	147920	146343.53	1070.77	148065	146018.2	1009.63	145540	143075.5	1505.98	129610	120280.97	5103.31

Table A.2532: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151127	150305.17	501.22	150770	149176	961.31	149182	146805	1654.43	139148	132271.97	3403.33
		2op	151082	150515.03	558.56	150591	149177.4	887.77	149554	146531.67	2083.93	138714	131199.83	5012.1
	50	rnd	151114	150637	344.65	150837	149637.37	745.41	150442	148410.23	1251.98	145203	141821.83	2228.23
51	20	rnd	151120	150570.37	493.55	150967	150028.47	702.19	149730	148516.23	784.58	145364	140592.63	2925.84
		2op	151063	150573.13	430.25	150810	149955.4	538.47	150720	149133.67	877.6	148645	145442.07	1691.92
	50	rnd	151074	150560.5	458.31	150940	150146.53	645.22	150429	149315.43	649.67	148761	145442.33	1928.27
	20	rnd	151224	150762.8	417.09	151108	150441.03	453.88	150692	149917.27	539.19	150085	148062.6	1442.07
		2op	151136	150858.37	252.23	151108	150458.23	415.24	150940	150104.47	773.08	149684	147151.87	2001.98

Table A.2533: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	147251	144494.5	1526.45	144799	141286.57	1558.81	127830	118542.13	5042.8	83046	75198.83	4097.2
		2op	146356	144549.57	1056.65	144686	141723.1	1380.01	126065	115686.27	6051.54	79368	74391.2	2636.79
	50	rnd	146977	144439.67	990.48	145303	142909.87	1359.3	136038	131132.07	3168.28	94807	83488.37	6227.38
51	20	rnd	147160	144538	1540.89	146100	142961.7	1610.66	134654	129653.37	2903.82	94402	83877.2	5780.21
		2op	147974	145952.87	872.9	148900	146022.6	1139.11	143304	139131.57	3131.29	114418	106565.9	4678.4
	50	rnd	148338	146166.2	921.81	147041	145592.33	1000	143513	139092.17	2334.18	112697	104733.37	4591.94
	20	rnd	148124	145739.47	1067.26	148653	145931.13	1326.22	145912	143308.37	1877.42	130430	120809.23	6335.16
		2op	147814	146043.5	696.92	148311	146032.43	1144.58	145225	142954.77	1359.32	126946	119653.23	4627.32

Table A.2534: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151161	150553.77	437.85	150665	149648.97	820.4	149138	146677.23	1858.96	138734	132197.97	4173.57
		2op	151104	150509.7	332.85	150609	149418.4	750.41	149697	147012.37	1663.46	138381	132180.37	3431.06
	50	rnd	151071	150517.93	389.82	150628	149671.7	754.7	150400	148652.97	1056.69	145496	140253	3849.29
51	20	2op	151142	150660.37	496.67	150902	149476.77	889.71	150147	148053.57	1052.59	145093	140037.4	2852.79
		rnd	151174	150635.4	450.96	150745	150057.97	522.49	150615	148963.47	1094.58	147426	145606	1177.37
	50	2op	151207	150580.4	415.12	151084	150053.77	570.63	150876	149282.5	888.86	149141	144655.33	1815.24
	20	rnd	151154	150754.3	322.81	151097	150470.17	464.72	150770	149363.43	796.3	149527	147277.97	1440.9
		2op	151162	150735.33	326.38	150962	150319.4	390.66	150734	149675.47	803.61	149123	147745.17	1158.61

Table A.2535: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	148653	146757.83	1027.89	148243	146525.23	814.72	141353	131754.17	5071.56	80809	74811.4	3995.24
		2op	148688	146536.1	1005.06	148215	146061.33	1077.38	140912	132570.83	4921.01	84052	75130.6	3924.01
	50	rnd	147793	145806.23	1187.42	147322	145707.1	878.92	141529	133170.27	5844.16	86022	78562.03	4414.55
51	20	2op	147607	145786.67	1104.62	147819	145399.2	1204.84	140380	131428.3	7009.87	91207	78903.97	5312.26
		rnd	149856	148808.57	596.66	149864	148706.17	638.44	148570	146926.83	1079.24	115216	104700.6	5807.71
	50	2op	149483	148654.63	574.39	149290	148567	367.1	148727	147255.9	915.53	113137	102976.47	4683.76
	20	rnd	149433	148082	1028.88	149229	147976.87	879.08	148279	146562.87	1287.55	126537	119707.57	4612.97
		2op	149120	147907.1	592.33	149517	148167.8	885.46	148543	146358.3	1201.4	129027	117526.1	4862.03

Table A.2536: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151152	150757.9	326.4	150939	150320.7	495.95	149861	147772.33	1067.06	135093	127103.43	5078.12
		2op	151055	150716.33	283.37	151071	150226.13	498.69	149244	147410.03	1724.51	134308	128641.63	3945.14
	50	rnd	151266	150874.83	348.06	150969	150443.17	389.71	150070	148698.63	1123.8	143973	137264.6	3542.43
51	20	2op	151208	150955.8	193.71	151038	150671.6	278.61	150162	148825.33	879.72	142491	136912.13	3270.27
		rnd	151214	150900.73	237.2	151138	150740.3	263.01	150854	150095.9	530.56	144451	140864.1	1840.83
	50	2op	151173	150873	248.88	151173	150781.1	271.72	150699	150104.13	404.3	146427	141556.6	1681.21
	20	rnd	151150	150923.2	227.66	151041	150754.03	256.03	150761	150079.33	537.39	148441	145900.7	1761.47
		2op	151205	151011.17	144.37	151065	150832.03	184.72	150946	149937.57	586.25	148681	145452.8	1909.94

Table A.2537: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162682	161057.4	874.11	159772	157115.23	1401.07	144007	129668.23	8140.43	85206	79099.87	3151.94
		2op	162569	160779.6	1036.02	160136	157192.03	1986.65	138801	129347.97	5197.52	88403	79886.6	3811.76
	50	rnd	163339	160649.07	1187.4	161208	159503.47	1078.09	151050	146091.77	2557.6	106525	93932.2	6793.29
51	20	2op	162019	160187.53	977.27	161306	158911.87	1339.31	153536	147068.83	3245.83	109084	93357.5	8013.13
		rnd	163169	161759.93	904.61	163354	161537.7	960.51	158830	154809.2	2378.72	126963	114341.07	5888.6
	50	2op	163578	162197.83	691.97	162745	161353.93	831.83	157927	153315.47	2557.9	128805	116375.7	5934.11
	20	rnd	164067	162104.9	1023.49	163550	161651.37	974.29	160280	158215.57	1685.78	144209	135281.2	4889.53
		2op	163708	162016.9	820.84	163379	161562.43	1265.18	160665	158541.7	1524.58	146474	134983.43	6845.7

Table A.2538: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166501	165994.43	431.11	165892	164874.97	788.56	164381	162074.27	1458.4	151579	147045.97	3939.91
		2op	166636	166022.4	396.28	165774	164712.7	844.27	165547	162137.53	1602.85	154386	147809.57	3858.09
	50	rnd	166867	166018.17	399.66	166231	165321.3	671.85	165904	164252.1	951.1	160644	157415.7	1680.56
51	20	2op	166747	166213.37	277.73	166459	165207.8	592.3	165477	163660.3	1027.28	162002	156546.4	3071.05
		rnd	166591	166011.2	471.06	166269	165491.17	478.67	165818	164351.83	896.73	164055	160579.13	1898.5
	50	2op	166571	166021.73	293.52	166185	165399.9	597.88	166157	164650.17	1124.75	163513	160883.27	1956.09
	20	rnd	166773	166240.53	379.24	166492	165847.83	372.79	166118	165157.93	747.26	164833	162913.4	1208.7
		2op	166786	166253.8	320.46	166271	165734.1	418.99	166366	165200.83	723.89	164596	162841.07	1184.15

Table A.2539: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	161949	160205.8	918.6	160156	157413.13	1702.09	142174	130919.9	6075.08	90240	78452.63	4194.54
		2op	161898	160375.63	1109.26	159144	157132.77	1583.77	141935	130684.1	6141.8	86469	79188.47	3231.53
	50	rnd	162746	160471.1	1132.76	160589	158876.43	911.65	150935	145925.53	3291.4	104132	91803.3	8223.17
51	20	2op	162249	160520.5	1085.35	160730	158892.73	1169.68	151433	145939.8	2608.27	112398	92416.3	8193
		rnd	164000	161794.83	1136.45	162934	161398.3	875.86	157731	153888.8	3036.33	124177	115063	5922.68
	50	2op	163397	161841.53	873.27	163287	161262.33	892.93	158413	154041.47	3511.07	123419	114568.57	5124.49
	20	rnd	163507	162012	933.71	163659	161891.1	1026.9	160937	158261.8	1970.57	143968	135407.2	4585.84
		2op	164463	162224.7	863.98	162962	161635.9	1037.5	161405	158372.67	1341.44	141815	134105.57	5685.11

Table A.2540: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166521	165978.6	639.44	165944	164844.23	569.81	165464	162432.93	1609.54	152058	146735.3	3886.64
		2op	166340	165698.1	473.12	166057	164713.9	1052.89	164889	162280.4	1672.64	154846	147641.1	4789.01
	50	rnd	166721	166056.63	427.41	166128	165227.47	591.39	165563	163761.67	1314.04	160994	155828.77	3177.95
51	20	rnd	166766	166038.07	405.11	166108	165079.6	530.49	165321	163772.43	1004.63	161126	155878.7	2681.69
		2op	166804	166071.5	383.03	166224	165458.2	522.42	165952	164864.87	679.84	162721	160450	1623.43
	50	rnd	166653	166064.7	468.7	166109	165195.2	606.23	166222	164690.33	898.57	163577	161271.83	1549.89
	20	rnd	166845	166240.07	438.93	166669	165782.27	511.05	166111	165329.67	631.75	164615	162920.9	1024.03
		2op	166713	166219.87	401.29	166495	165792.07	655.66	166041	165118.1	729.36	165265	162624.97	1168.46

Table A.2541: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163660	162131.57	896.68	163645	162129.27	790.93	156955	150867.83	4610.8	85301	77541.8	4320.09
		2op	163269	161938.07	665.41	163174	161702.3	735.9	156994	150490.5	4515.95	85335	77821.23	3728.91
	50	rnd	162940	161437.77	897.42	162874	161510.63	740.12	156768	147210.27	10277.05	94211	84483.33	5491.29
51	20	rnd	162993	161070.6	927.95	163228	161183.73	926.94	157308	149063.57	6401.2	94168	84620.43	6843.71
		2op	164863	163923.27	576.18	164833	163716.07	641.19	163220	161845.67	659.09	123708	115451.7	5110.25
	50	rnd	164668	163629.67	726.1	164485	163468.9	605.39	162915	161472.73	991.95	123988	112891.63	6857.66
	20	rnd	164490	162865.77	754.08	164458	163256.33	670.63	163303	161665.17	743.35	146163	134524.37	4662.83
		2op	163968	162911.2	594.88	164415	163204.3	678.02	162656	161327.57	1025.82	146463	133655.33	6069.37

Table A.2542: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166681	166102.23	423.87	166465	165691.37	540.49	165025	163294.5	845.92	151417	143052.67	3797.21
		2op	166526	166032.2	421.98	166323	165644.3	456.74	164528	163367.83	774.55	148243	142641.73	4127.59
	50	rnd	166864	166270.43	365.5	166392	165903.53	345.71	165090	163647.43	1563.84	158194	153389.83	3435.43
51	20	rnd	166816	166298.03	353.08	166696	165964.3	455.01	165422	163881	1120.84	160055	154260.07	2891.48
		2op	166847	166379.87	271.48	166776	166219.47	326.63	166250	165556.03	367.39	160467	155008.5	2085.79
	50	rnd	166617	166280.53	233.08	166564	166128.37	268.71	165967	165252.63	531.16	160760	154959.57	2196.74
	20	rnd	166934	166514.83	223.05	166862	166309.97	264.41	166298	165655.37	409.94	163616	160114.47	2603.04
		2op	166862	166363.83	293.51	166699	166134.47	333.44	166254	165446.6	349.07	163491	159554.43	2527.75

Table A.2543: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	159174	158101.8	497.79	157103	155423.6	896	142253	133083.77	5292.84	86153	79090.33	3301.03
		2op	159353	158342.9	540.36	156830	155332	1131.58	142253	130116.53	7507.29	91959	80409.47	4609.99
	50	rnd	158929	158090.57	488.78	157916	156495.93	902.9	151874	147523.7	3202.83	100811	89982.47	5860.87
51	20	2op	159013	158376.63	400.62	157863	156843.47	693.99	151669	146608.57	3433.19	107738	92506.27	8338.04
		rnd	159578	158855.43	404.95	158969	158267.83	465.48	155249	152861.3	1579.23	126017	114315.13	5198.18
	50	2op	160018	158963.73	428.28	159284	158399.87	496.24	156777	152596.07	2892.21	127996	115755.77	6608.37
	20	rnd	159459	158845.87	441.43	159376	158479.67	413.76	157898	155983.7	1058.08	144348	137168.17	4652.5
		2op	159531	158934.67	385.04	159474	158481.3	507.13	157434	155716	1075.18	146425	137313.87	5132.64

Table A.2544: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162902	162437.53	279.63	162161	161276.5	620.48	160933	159170.57	1098.12	153288	147353.93	3694.63
		2op	162886	162353.47	380.97	162460	161533.93	500.41	161186	159830.57	779.96	155694	148139.2	3983.08
	50	rnd	162920	162625.57	264.22	162385	161783.43	538.5	161647	160638.27	822.38	159187	155274.93	1867.78
51	20	2op	163004	162571.13	284.08	162585	161890.13	527.62	162060	160665.13	832.72	158318	155442.83	2320.22
		rnd	162933	162444.17	353.4	162489	161912.63	405.9	162098	161199.23	652.72	159245	157281.83	1459.7
	50	2op	162874	162524.67	157.59	162751	161963.33	449.87	162085	161265.7	475.81	160337	157864.53	1435.44
	20	rnd	163077	162623.6	271.16	162527	162261.77	240.14	162425	161798.37	283.1	161215	159535.77	1038.82
		2op	162942	162642.17	167.44	162686	162304.63	213.18	162606	161760.8	455.95	160798	159811.67	741.17

Table A.2545: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	158939	157997.7	557.85	157749	155397.07	931.88	141040	131513.9	6777.26	89979	77933.17	4654.11
		2op	159227	158142.53	591.65	156899	155377.3	1114.97	143941	133296.97	5766.93	85074	77535.1	4195.27
	50	rnd	158877	157980.63	546.38	157594	156664.23	593.57	151945	145597.33	2772.57	101491	90245.63	7872.14
51	20	2op	159129	158100.23	464.17	157870	156652.53	601.68	153493	147418.53	3116.64	106073	90543.63	7721.83
		rnd	159580	158748.53	458.28	159455	158486.4	517.41	155874	152364.77	1863.13	125118	113960.13	6292.61
	50	2op	160041	158939.13	484.86	159051	158238.43	417.86	156045	152972.87	2109.74	125928	115855.57	6247.61
	20	rnd	159650	159026.93	420.78	159350	158532.4	545.55	157196	155874.5	845.9	145978	134328.03	5570.32
		2op	159625	158684.3	523.42	159550	158444.53	465.93	157589	155752.93	970.58	143122	135629.17	4555.76

Table A.2546: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162771	162440.3	195.79	162379	161528.93	538.8	160676	159264.37	887.96	152876	146190.47	4035.68
		2op	162883	162371.13	380.13	162318	161638.93	406.54	161130	159332.47	1202.7	153726	147972.93	4415.12
	50	rnd	162959	162608.8	205.11	162450	161794.8	436.24	161538	160490.13	951.74	157334	154059.1	2511.09
51	20	2op	162800	162566.7	149.08	162489	161809.47	381.66	161695	160474.43	843.77	158032	155073.3	2222.05
		rnd	162877	162506.8	172.25	162488	161910.5	405.51	162168	161004.2	872.9	160264	157831.43	1419.46
	50	2op	162829	162494.2	191.76	162536	162032.53	271.12	162088	161231.37	645.52	160555	157897.53	1361.19
	20	rnd	162953	162654.57	207.68	162627	162282.6	237.61	162429	161740.3	426.01	160630	159278.03	1113.08
		2op	162904	162658.13	153.78	162825	162298.53	262.26	162430	161855.13	385.33	161149	159809.73	972.17

Table A.2547: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	159401	158523.6	488.57	159193	158361.1	449.47	153935	150694.93	2035.74	88367	76443.47	4608.23
		2op	159426	158639.8	362.42	159096	158378.53	431.01	154228	151204.7	2481.12	88681	76934.33	4781.56
	50	rnd	159280	158431.97	440.79	159635	158372.37	439.72	154778	149547.3	5984.71	99180	87525.2	5594.44
51	20	2op	159313	158491.07	475.94	159169	158406.73	394.79	155456	150640.7	5098.73	103833	86165.7	5983.71
		rnd	159929	159242.87	420.35	159759	159196.5	383.21	157726	157052.53	503.81	137609	120235.23	8874.03
	50	2op	159837	159306.4	295.41	160042	159396.77	330.12	158448	157251.77	574.54	140113	122029.67	8644.47
	20	rnd	159801	159054.37	398.47	159679	158961.77	417.11	158144	157287.57	568.48	145218	138237	4592.14
		2op	159563	158975	276.88	159569	159034.67	266.62	158185	157155.17	568.32	146575	139284.93	4064.41

Table A.2548: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	162829	162469.5	200.65	162501	162121.43	302.26	160793	159995.97	582.97	150579	143782.63	3766.75
		2op	162845	162477.93	222.38	162531	162201.43	185.35	161187	159902.53	596.59	151565	145692.67	3983.18
	50	rnd	162916	162704.63	119.26	162778	162311	217.39	161753	160572.37	780.8	158526	153840.1	2322.8
51	20	2op	162909	162680.5	165.69	162689	162368.7	200.61	161502	160819.7	473.55	156517	153312.1	2259.54
		rnd	162767	162469.23	185.8	162664	162356.6	182.24	162051	161642.17	247.9	158084	152803.07	2435.61
	50	2op	162959	162573.47	185.37	162809	162440.27	215.99	162079	161585.07	580.02	158096	153110.53	2283.13
	20	rnd	162976	162705.93	143.76	162787	162494.07	181.24	162309	161786.47	261.16	160185	156699.77	2187.53
		2op	162990	162683.63	124.86	162779	162494.43	140.94	162150	161800.63	207.52	160269	156603.57	2390.17

Table A.2549: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	175412	175026.27	259.3	173780	172155.6	1368.76	156400	145260.43	6214.49	94997	85151.17	4288.56
		2op	175420	174817.83	517.93	173855	172287.93	954.95	152900	140511	7437.94	92573	85444.33	3643.9
	50	rnd	175586	174945.57	459.96	174342	173416.87	565.41	170958	162208.13	4359.9	115008	98573.17	9014.67
51	20	rnd	175593	174942.43	439.93	174204	173504.93	702.74	167592	161855	3588.44	112115	99871.63	6681.86
		2op	175977	175401.23	255.96	175245	174644.43	535.3	172277	168736.13	1944.64	139415	126804.53	5851.7
	50	rnd	175842	175388.9	312.69	175399	174824.73	314.89	172128	169046.17	2012.86	140366	125559.53	7049.82
	20	rnd	175832	175425.87	344.34	175692	175073.43	386.17	173764	172297.7	1118.99	154506	147037.93	6106.69
		2op	175897	175487.63	310.84	175528	174941.63	337.86	173849	172438.97	1145.36	159034	148680.77	5914.62

Table A.2550: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179528	179112.9	173.1	178711	178096.87	545.86	177739	175901.57	1115.16	170540	163318.73	3338.25
		2op	179484	179100.03	356.24	179201	178226.87	504.73	178186	175896.53	1147.39	171127	164615.3	2791.8
	50	rnd	179740	179343.33	268.42	179186	178444.3	617.4	178187	177072.07	755.41	175288	171804.97	2248.27
51	20	rnd	179707	179336.7	180.72	179058	178494.1	488.37	178777	176943.53	894.97	175820	171480.7	2446.8
		2op	179542	179255.5	166.23	179180	178783.6	213.91	178635	177929.57	568.58	176636	174660.5	1498.93
	50	rnd	179671	179227.93	306.93	179299	178630.97	455.74	178546	178030.83	451.09	176497	174712.13	1382.57
	20	rnd	179701	179349.77	158.34	179504	178987.4	305.13	178877	178377.8	322.64	177633	175750.83	1136.73
		2op	179741	179410.53	218.88	179410	179043.03	172.2	179215	178454.67	624.59	177161	175857.23	917.16

Table A.2551: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	175244	174887.53	284.82	173706	172052.3	1182.07	156432	144384.63	6319.21	97318	84323.43	4382.72
		2op	175334	174945.8	281.97	173430	171970.03	1254.93	160417	144978.07	6199.3	92713	85221.67	3691.21
	50	rnd	175370	175049.6	227.59	174129	173315.67	541.52	168039	162461.87	3047.27	110633	100334.6	6020.12
51	20	rnd	175301	174985.6	253.72	174162	173569.9	324.28	170344	161650.93	4752.78	112828	98314.03	7507.18
		2op	175846	175447.63	277.8	175347	174779.37	419.15	172418	168598.5	2240.03	140550	126212.83	6069.02
	50	rnd	176017	175300.77	430.78	175153	174558.93	421.9	171721	169111.7	2059.66	141837	125991.43	7436.77
	20	rnd	175742	175425.13	295.06	175521	174966.3	370.66	173292	172496.9	600.81	159413	149132.47	5670.25
		2op	175806	175293.07	382.79	175547	175096.03	293.08	173859	172635.8	788.83	162345	148250.57	6934.54

Table A.2552: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179413	179155.03	148.44	178844	178127.97	564.41	177669	176286.77	789.35	168665	163962.07	3611.73
		2op	179449	179033.07	424.73	179067	178023.67	695.87	177260	175878.2	1272.05	167101	161766	3705.64
	50	rnd	179586	179311.67	192.78	179140	178620.73	347.65	178239	177199.67	725.05	175309	170577.63	3031.17
51	20	2op	179668	179289.23	237.72	179091	178543.33	438.73	178302	177225.57	784.13	174683	171443	1816.25
		rnd	179566	179141.73	279.34	179243	178662.73	320.32	178786	177884.1	722.48	176848	174379.8	1413.75
	50	2op	179482	179171.07	244.45	179432	178618.27	543.18	178746	178009.7	486.8	177063	174320.9	1686.27
	20	rnd	179573	179359.13	151.53	179298	179014.97	239.49	179345	178444.67	486.58	177189	176039.9	861.08
		2op	179686	179434.17	125.68	179455	178920.23	419.75	179052	178379.2	443.17	177227	175575.7	915.8

Table A.2553: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	175663	174986.77	309.8	175233	174790.27	378.08	170211	167395.67	2130.76	93809	82763.87	5045.22
		2op	175405	174934.27	355.46	175492	174796.43	430.79	170474	167631.63	1722.36	91352	84524.7	3686.62
	50	rnd	175165	174791.93	307.31	175274	174781.47	254.82	171205	166496.73	6417.28	112134	95018.07	7481.45
51	20	2op	175212	174836.23	284.77	175166	174803.7	287.14	171407	168107.47	4084.37	109584	93879.27	7716.94
		rnd	175671	175286.9	203.14	175650	175220.8	239.19	173493	172866.87	367.96	152368	136885.63	10010.6
	50	2op	175741	175339.97	189.82	175632	175285.83	212.91	173831	173045.83	395.99	149611	136709.2	7928.59
	20	rnd	175204	174813.23	288.02	175278	174983.37	201.17	173680	172961.9	377.63	166188	155467.7	5846.69
		2op	175268	174954.73	224.63	175313	174866.1	280.98	173630	173114.07	305.45	164162	156758.8	4954.3

Table A.2554: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179380	179146.57	179.34	179227	178832.67	295.85	177138	176151.2	687.89	168990	160346.6	3811.83
		2op	179592	179197.43	203.27	179237	178851.9	273.87	177182	176255.83	655.13	166615	160628.07	3845.71
	50	rnd	179639	179389.1	158.29	179398	179060.13	177.6	177988	176875.77	1148.25	174046	170309.3	2270.35
51	20	2op	179592	179383.2	137.16	179198	178992.33	177.57	177873	177219.3	823.37	174103	170893.8	1825.55
		rnd	179547	179244.4	166.48	179359	179138.07	158.82	178932	178214.43	314.96	173175	168417.7	2656.9
	50	2op	179753	179285.87	173.63	179663	179179.93	221.86	178758	178155.13	466.98	174145	168659.27	2613.8
	20	rnd	179748	179417.83	140.54	179541	179224.37	154.72	178903	178539.3	213.11	176193	172204.37	2880.42
		2op	179692	179426.7	122.61	179638	179241.7	158.09	179030	178487.5	304.83	175787	172618.23	2012.28

Table A.2555: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	329775	326397.93	1789.86	317939	310510.17	4764.33	246132	222205.27	14337.03	165099	153315.27	5733.81
		2op	330805	327166.73	1493.19	319501	309117.8	6054.02	243316	222362.67	14189.57	169731	153749.57	5683.23
	50	rnd	329597	327124.17	1509.49	324277	319445.03	2893.8	281748	272617.77	6476.3	179128	163876.13	6925.18
51	20	rnd	331793	327206.2	1689.76	323250	319680.27	2737.25	286629	270651.6	11095.17	177802	160770.9	7808.47
		2op	332868	329317.77	1618.73	329886	326796.6	1724.43	303443	293675.03	6236.1	218410	202270.7	7708.67
	50	rnd	331067	328809.37	1129.85	330752	327009.6	1834.07	305802	293934.43	9318.12	210908	200342.93	6422.67
	20	rnd	332339	329462.3	1576.7	331589	328253.43	1351.99	319072	310715.1	4599.16	246479	235497.6	7896.33
		2op	332834	330113.13	1745.57	332310	328862.33	1457.81	320762	311277.87	4847.04	249150	229842.43	13249.25

Table A.2556: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342156	340442.9	918.06	340719	338558.2	1186.12	334345	332042.27	1745.83	310645	296501.2	7625.45
		2op	342267	340709	895.07	339928	338238	1083.04	337362	332623.8	2871.63	309660	296060.8	7261.01
	50	rnd	342618	341365	801.11	341484	339082.4	1056.68	339344	335960.77	2064.84	325140	317026.43	4443.34
51	20	rnd	342410	341402.23	567.32	341361	339013.77	1161.82	340014	336601.3	1591.88	327581	316494.67	5621.96
		2op	342013	340595.23	878.11	341524	340032.6	894.42	340103	337428.23	1449.19	333076	326737.77	4247.41
	50	rnd	342044	340728.87	955.17	341555	339181.27	1573.6	340136	338087.27	1195.84	333689	327286.23	4406.71
	20	rnd	342643	341506.3	700.34	341850	339976.47	813.4	341592	339211.37	1152.13	337780	332625.43	2309.23
		2op	342698	341534.7	640.43	342119	340287.67	870.65	341653	339149.9	1329.2	337874	332352.93	2611.68

Table A.2557: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	327943	325324.2	1910.85	315738	307302.07	5482.21	242609	224263.43	11757.8	163814	152892.97	4616.2
		2op	328882	325634.77	1824.97	317556	309951.2	5304.38	241052	219956.07	13375.68	161612	151742.77	5030.46
	50	rnd	329606	326499.4	1982.54	323946	318162.23	3328.95	277342	263744.7	10057.06	175870	162180.57	7090.25
51	20	rnd	329820	326609.9	1916.67	325099	319109.93	2655.46	282870	265367.47	10257.59	178001	160997.2	7177.86
		2op	331031	328234.8	1795.92	330651	326572.23	1927.87	303427	291155.8	7945.54	214544	199326.7	8420.46
	50	rnd	333104	329081	1828.82	332606	327077.7	2501.89	302381	289699.73	9691.95	220468	201661.17	7853.7
	20	rnd	332459	329805.9	1569.37	331899	328669.73	1732.82	320478	310577.97	4349.58	247334	231678.7	8122.26
		2op	332173	329054.37	1730.15	333063	328614.47	1933.29	321288	311783.8	4848.07	257917	232771.37	11564.22

Table A.2558: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342209	340433.2	744.23	340351	337914.77	1439.68	336586	331340.77	2877.79	308904	293301.77	9153.69
		2op	342566	340259.37	1099.11	340595	338314.07	1422.76	337009	331995.13	2693.04	309069	291880	8812.16
	50	rnd	342281	341104.93	678.95	340854	339513.4	806.37	338868	335316.67	1999.37	323419	312526.1	5726.88
51	20	rnd	342301	340926.67	853.98	341173	338474.37	1248.89	338828	335568.47	1767.94	326122	312271.2	6590.41
		2op	341875	340701.67	645.09	341233	339256.23	1261.35	340609	337293.1	1605.94	335389	328538.83	3269.08
	50	rnd	342147	340851.2	758.45	340644	339001.03	982.61	340406	337373.17	1590.48	333596	327661.3	3268.9
	20	rnd	342482	341671.43	514.46	341661	340459.87	784.29	341715	339253.33	1339.19	337142	332924.67	2787.3
		2op	342522	341355.87	603.13	341817	340001.77	947	340959	339080.43	1284.57	337326	333098.07	2383.24

Table A.2559: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	330810	328686.7	1367.72	331066	328417.23	1366.59	294919	280334.3	10322.29	166278	154876.67	4920.03
		2op	331729	329067.67	1417	331513	328347.7	1541.05	296253	282916.13	7999	170516	156307.3	5609.88
	50	rnd	331858	328118.57	1836.94	330725	327443.93	1842.98	306561	272875.6	24158.68	165067	156537.7	4354.54
51	20	rnd	332545	327885.9	2057.98	330582	328231.2	1312.04	302197	277481.23	24605.35	168162	156947.4	6416.18
		2op	334235	332054.27	1151.65	335082	332087.83	1314.12	328157	324340.23	2490.07	232743	204770.57	11901.72
	50	rnd	334285	331519.77	1107.37	335306	332097.3	1299.43	327580	323605.83	3001.01	228970	207730.23	11380.84
	20	rnd	333566	330661.9	1285	332650	330239.43	1346.11	330834	327040.4	2067.09	254877	241223.07	11237.85
		2op	333617	330501.47	1491.22	333904	330805.8	1368.04	330322	327040.1	2058.76	267699	239520.9	15344.17

Table A.2560: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	342380	340911.33	894.32	341633	340012.13	986.83	336150	333342.37	1813.71	298535	283735.33	8629.3
		2op	342041	340934.67	685.95	341481	340245.67	704.68	336735	332916.8	2461.67	297980	283401.6	7890.21
	50	rnd	342468	341456.03	642.35	342155	340675.43	791.6	337955	335040.1	2419.28	320894	309304.93	7326.12
51	20	rnd	342633	341560.37	585.96	341720	340591.6	748.88	339561	335560.57	2073.86	317916	309242.9	6486.84
		2op	342233	341186.63	728.27	342111	340953.07	746.14	341399	339001.5	1593.22	324656	302073.7	9874.24
	50	rnd	342572	341197.03	756.86	342452	341058.9	798.27	340786	338951.6	942.13	325328	302498.8	8552.94
	20	rnd	342641	341771.07	505.39	342079	341461.13	558.86	341317	339784.2	773.5	333405	316434.53	12154.5
		2op	342616	341655.3	543.19	342473	341303.07	593.99	341709	339864.07	828.72	332548	316553.03	11897

Table A.2561: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	215292	210875.07	1777.22	206442	200263.3	2811.55	162994	153423.37	5253.89	154044	147559.23	3170.42
		2op	216553	211875.07	2507.72	206573	198667.83	4128.82	169192	155185.83	4822.18	158643	149441.13	3875.91
	50	rnd	214376	210505.53	2385.02	211337	206263.77	2882.34	178160	168000.17	7092.84	153813	147141.63	3584.06
51	20	rnd	216685	210718.57	2396.73	211820	204971.8	3524.19	181063	169999.9	7377.51	151490	146388.83	3145.94
		2op	219666	215998.6	2188.04	221580	215133.23	2584.06	200533	193252.93	4230.78	171512	166344.33	3461.28
	50	rnd	221948	216868.4	2119.18	219502	215943.83	2222.3	206264	193316.73	5471.85	173798	165860.03	3786.08
	20	rnd	218667	215103.47	2591.87	218338	214998.43	2104.02	210072	203731.23	3729.38	175565	163627.73	4782.16
		2op	219352	215645.43	2400.44	219442	215223.6	2385.18	211567	203677.07	3870.81	174131	165545.07	3294.39

Table A.2562: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226918	225290.5	912.54	225944	224649.87	775.93	225490	222084.67	1790.03	218664	204891.93	4632.2
		2op	227041	225886.53	595.51	226210	224799.8	996.5	225233	222482.27	1854.61	215009	205655.63	3998.09
	50	rnd	227306	225474.83	722.28	226568	224954.17	841.63	226336	223657.87	1275.59	221604	216256.7	2963.73
51	20	rnd	226837	225902.23	669.89	226491	225494.1	600.46	226037	224210.7	1212.54	219536	215104.07	2635.19
		2op	226731	225621.3	641.73	226801	225554.97	674.08	226447	224408.77	968.81	224555	219825.5	2222.18
	50	rnd	227190	225910.23	841.42	226839	225788.03	774.59	226616	225021.43	879.79	224821	220510.73	1999.16
	20	rnd	226929	225584.43	663.36	227072	225650.8	685.89	226664	224748.13	834.64	224389	222143.27	1275.68
		2op	226909	225753.07	540.59	226985	226000.67	531.73	226867	225515.6	715.28	225778	222824.23	1612.61

Table A.2563: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	216661	210794.83	2856.45	208797	199693.93	3555.44	161804	153065.2	4454.38	152120	146003.73	3209.29
		2op	215703	211637.97	1877.37	205965	199997	3239.9	162155	154331.97	3729.54	156604	147845.93	3558.02
	50	rnd	215491	210800.53	2448.8	210877	204505.73	3500.23	175243	168002.87	4813.05	153604	145826.37	3428.69
51	20	rnd	214618	210394.07	2028.31	209476	204597.5	2564.23	182363	168191.07	6166.06	152921	145483.87	2837.25
		2op	222500	216166.1	2662.97	219677	214623.53	1911.89	203699	192005.9	7500.4	175498	166834.77	3797.4
	50	rnd	220740	216357.9	2173.05	219978	215271.87	2250.94	204489	193581.57	3861.12	174256	166041.27	4248.17
	20	rnd	218077	214646.43	2270.47	219183	214394.87	2656.53	211875	204096.8	3362.59	170891	162709.43	3586.92
		2op	220846	216296.93	2281.52	219710	214701.63	2427.29	209060	201676.07	4111	173376	164143.27	3527.14

Table A.2564: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226479	225603.2	711.48	226862	224890.43	1052.2	224556	222107.53	1658.48	211538	204409.93	4738.66
		2op	226520	225655	599.06	226803	225131.6	1182.8	224880	221953.63	1737.53	209283	204759.8	3082.18
	50	rnd	226594	225287.6	780.55	226586	224972.53	1023.64	225507	223518.63	1448.1	218695	213643.7	3067.15
51	20	rnd	227137	225834.23	663.99	226851	225686.43	734.63	225927	224048.37	982.05	220027	212705.13	3560.28
		2op	226995	225616.23	708.18	226908	225507.87	777.25	226092	224377.9	872.75	222605	219620.93	2253.93
	50	rnd	227120	225966.47	588.21	226928	225845.7	654.42	226171	224892.7	871.74	224561	220403.1	2104.3
	20	rnd	226850	225574	729.49	227052	225772.83	567.09	226840	224941.27	954.47	224714	222547.3	1385.59
		2op	226866	225752.63	677.31	227161	225815.53	799.01	226418	225253.87	814.92	225491	222839.3	1300.3

Table A.2565: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	224161	220947.07	1816.5	223292	219936.27	2006.34	175509	164047.73	7074.38	154336	146476.53	3191.9
		2op	223181	221025.83	1537.06	223463	220955.17	1879.81	173772	162199.47	6792.27	157142	147649.23	3200.2
	50	rnd	221883	218644.17	1953.97	222063	217874.27	2170.89	183365	170613.33	6955.8	157056	145906.27	3179.59
51	20	rnd	222534	219548.17	2069.6	222116	218720.4	2109.65	181401	171640.6	7042.44	155673	147029.67	3544.94
		2op	226835	224550	1264.42	226026	224833.23	707.08	216178	202099.47	8759.92	170540	165059	3531.07
	50	rnd	226697	225429.17	682.77	226697	225453.27	784.47	214145	205528.13	7781.38	171774	165466.27	3986.46
	20	rnd	226387	224506.3	930.49	226017	224072.3	1209.42	217553	213281.77	3141.38	172228	162746.63	4024.09
		2op	225796	224608.53	803.29	226285	224718.47	749.43	219934	213941	4579.02	168898	162648.43	3018.31

Table A.2566: *bx842596_4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226625	225591.97	644.79	226603	225134.57	932.89	223929	221937.83	1316.66	205699	199480.7	3322
		2op	227265	225988.1	573.59	227263	225924.27	580.49	225097	222888.4	1186.23	207111	200188.93	4278.93
	50	rnd	226986	225554.97	713.97	226106	225181.63	584.14	225769	223782.37	875.05	216243	211130.4	3109.46
51	20	rnd	227054	226261.87	443.85	226997	226192.97	578.25	225890	224293.4	851.45	216222	211873.67	2497.1
		2op	227242	225663.23	771.34	226728	225561.03	716.3	226712	225047.83	749.4	219029	215463.13	2068.52
	50	rnd	226690	226136.77	337.09	226690	226104.03	351.28	226646	225655.8	516.99	222225	216328.57	2473.69
	20	rnd	227216	225787.63	645.19	226692	225637.13	638.71	226228	224849.3	867.77	222999	219501	2038.31
		2op	227178	226303.3	429.83	226910	226254.93	410.47	226655	225713.23	532.54	223157	220334.37	1767.71

Table A.2567: *bx842596_4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	430051	426448.3	2539.87	408667	390233.73	8697.43	340200	333208.77	4153.91	337258	331726.27	3549.83
		2op	434195	427142.1	2600.7	405433	389908.5	8510.12	339074	332000.3	3595.17	340139	332666.1	2853.28
	50	rnd	430741	426365.8	2700.12	417041	408775.13	5682.16	347741	337050.53	5495.06	338730	330123.6	4285.22
51	20	rnd	430879	426140.97	2466.32	417743	409149.33	5309.99	347093	334790.83	5298.27	339925	329822.63	4151.56
		2op	435345	431327.5	2149.5	432730	424904.07	3627.14	391437	373012.17	8562.25	361023	352532.9	5220.54
	50	rnd	434356	430378.97	1960.12	431111	424127.47	3407.09	386755	371048.6	9503.27	359098	351655.07	3624.68
	20	rnd	434757	430318.8	2840.08	434101	428506.9	3312.04	413335	395243.57	7519.91	354703	347440	4174.17
		2op	433428	429561.13	2263.78	431103	427550.13	2055.6	406486	393376.97	8220.13	357081	347149.1	4400.04

Table A.2568: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441176	439036.5	1249.5	440021	438328.03	1241.47	439328	435050.23	2088.86	422188	413303.33	5680.09
		2op	441458	439457.73	1074.76	442024	439295.27	1256.7	440643	436658.13	1889.56	421429	414395.93	4577.13
	50	rnd	442534	439558.3	1372.33	440277	438455.03	1016.92	439191	436714.77	1792.22	432345	426887.43	3665.45
51	20	rnd	440960	439604.87	858.97	441772	439517.03	1062.87	439968	438326.83	777.06	435014	428308.17	3211.65
		2op	441150	438464.03	1332.96	440626	438849.87	1005.25	440608	437688.87	1208.64	436365	432641.43	1888.6
	50	rnd	441166	439266.03	1147.74	441467	439475.53	1177.91	441273	439339.53	1007.92	437380	433862.27	1914.91
	20	rnd	440943	438861.93	1128.36	442189	439370.6	1273.13	440140	438237.53	1383.63	436654	434598.8	1363.55
		2op	441019	439224.47	855.51	440546	439258	843.16	441001	439104.43	1251.39	438482	435788.1	1419.42

Table A.2569: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	432269	426441.2	3051.65	406476	388355.03	9920	343303	331770.1	4857.31	336220	329084.77	4113.66
		2op	431533	425963	2760.54	400994	390242.87	6763.75	338266	331305.43	3893.64	340109	332043.33	4179.89
	50	rnd	431786	426180.37	2999.26	416578	406899.97	5607.45	349189	333858.3	5292.17	334688	326475.57	4358.34
51	20	rnd	430875	425617.4	2776.65	415712	408028.33	5073.14	347923	334910.7	5967.46	338253	329965.6	4198.28
		2op	435364	431093	2335.46	431517	425566.73	3382.6	389574	374127.33	7607.13	359772	351797.4	3970.03
	50	rnd	434303	430490.2	1726.01	432554	424228	2944.98	385109	370182.8	7421.9	359935	352695.2	4109.6
	20	rnd	435905	430686.9	2409.23	432726	428578.27	2871.41	406178	394894.23	6312.25	353400	346022.53	4195.98
		2op	432873	429465.33	1842.35	431744	427338.5	2201.61	404921	394230.67	6400.6	352936	347550.87	4047.89

Table A.2570: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441181	439025.03	1094.8	440735	438118.57	1539.96	438285	435364.3	1918.08	420272	412523.7	5540.82
		2op	442840	439554.43	1074.05	442349	439221.77	1078.79	439032	436505.8	1565.33	422266	413992.3	4486.97
	50	rnd	441189	438819.37	1218.15	441725	438464.9	1189.75	439830	437007	1449.21	432508	425214.5	2937.76
51	20	rnd	440775	439289.13	931.04	441445	439441.93	1123	439817	437852.5	1171.99	433380	426595.27	4095.61
		2op	440894	439144.93	1118.12	440842	438626.3	1260.79	440391	438260.9	1294.05	438681	432221.73	2384.63
	50	rnd	440535	439219.53	719.74	441320	439268.93	1189.06	441037	439148.63	1187.04	437406	434548.5	2075.16
	20	rnd	442159	439178.27	1071.22	441521	439318.23	1101.05	440391	438273.93	1253.11	437608	434313.1	2092.64
		2op	441453	439530.23	896.49	441406	439507.33	858.18	442008	439350.27	1000.06	439902	436629.33	1735.46

Table A.2571: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	437759	434155.2	1957.74	436940	432373.93	2459.91	349701	339153.67	4662.85	339468	329051.73	4614.1
		2op	436701	433859.07	1467.59	435174	432334.27	1678.19	354763	339302.13	5062.73	339781	334082.23	3235.75
	50	rnd	437916	434794.37	1672.59	438583	434182.9	2149.58	355744	343623.5	6754.79	335818	328532.77	3837.34
51	20	rnd	436917	433678.07	1935.99	437559	433371.77	1442.63	362852	340302.87	8019.2	339867	331016.87	3685.67
		2op	440539	438129.43	1294.66	440539	438186.67	1365.55	412067	391446.93	14262.77	358296	350022.9	4495.71
	50	rnd	438654	436962.13	785.7	438101	436828.53	691.61	414041	390799.07	13710.02	358597	351162.03	3664.94
	20	rnd	440188	437712.33	1458.75	440784	437628.03	1577.36	419945	407774.87	6779.25	356417	345386.9	4866.26
		2op	438762	436907.07	788.83	438175	437013.33	632.57	421355	408363.6	7316.09	354947	347272.07	4843.22

Table A.2572: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441543	439113.67	1220.99	441406	439182.37	1244.01	439012	434648	1927.48	418740	409885.33	4815.27
		2op	441186	439195.13	840.4	441051	439341.93	817.72	439096	436294.8	1339.67	417801	410756.07	3550.19
	50	rnd	441295	438957.47	1134.19	441165	438894.13	1152.36	439280	436284.37	1466.22	428459	422837.17	2900.58
51	20	rnd	440485	439236.83	693.92	440557	439220.7	791.07	440109	437767.77	1400.13	429947	424794.67	3032.05
		2op	441037	439420.7	932.38	441021	439361.37	968.2	440816	437864.3	1598.2	433960	422161	4797.47
	50	rnd	439771	438614.33	668.48	439771	438605.23	678.37	441352	439156.6	1099.01	433070	423225.97	4200.8
	20	rnd	441676	439195.27	1246.57	441627	439107.83	1234.43	441514	438807.17	1080.16	437287	430088.37	4608.36
		2op	440338	439077.37	640.89	440330	438971.4	646.68	440608	439065.9	808.56	437597	431773.87	4487.14

Table A.2573: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	113575	112556.07	813.57	111336	108653.17	1737.9	95619	90866.4	2231.06	93178	89122.4	1732.68
		2op	115261	113283.27	713.56	112788	109673.13	1687.72	97395	91803.67	2581.7	92453	89847.53	1511.05
	50	rnd	114871	112575.4	911.77	113036	110726.63	1120.7	102564	97639.9	2877.87	91549	88571.87	1253.65
51	20	rnd	114990	113021.03	863.36	113295	111173.43	1196.6	104248	97353.23	2946.05	91647	89325.27	1182.83
		2op	114950	113708.93	733.05	115182	113452.43	919.31	109618	105826.87	2503.71	100184	96635.27	1864.06
	50	rnd	115437	114236.1	842.82	115610	113948.5	894.68	110601	107267.5	2210.12	102220	97415.17	2310.44
	20	rnd	115523	113475.8	819.19	114810	113248.13	933.71	112530	110192.07	1770.82	99415	95650.53	1874.48
		2op	115382	113978.53	734.8	115581	113865.3	1017.38	113561	110852.57	1913.65	99296	95798.4	1705.21

Table A.2574: $j02459_7$: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115759	114879.77	445.3	115982	114780.87	498.98	115438	114126.53	837.63	111946	109483.87	1343.16
		2op	116265	115610.6	382.12	116153	115469.17	395.99	115350	114543.9	527.56	112409	110195.47	1849
	50	rnd	116082	115104.43	504.79	115883	115296.63	446.4	115992	114640.6	606.62	113829	111982.63	1150.65
51	20	rnd	116052	115376.2	318.41	116296	115425.4	442.99	115916	115080.53	441.44	114474	112950.23	740.52
		2op	115893	114997.67	540.76	116152	115108.33	410.46	115825	114845.23	587.54	114954	113647.73	800.94
	50	rnd	116156	115577.03	323.7	116235	115638.63	312.54	115936	115341.3	377.79	115680	114397.5	574.08
	20	rnd	115997	115014	549.28	116178	115241.3	493.11	115657	114828	468.51	115102	114112.53	531.18
		2op	116191	115643.33	310.77	116327	115732.63	330.53	115970	115445.17	397.86	115683	114644.23	461.68

Table A.2575: $j02459_7$: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115192	112465.73	1227.51	112058	108998.07	1463.75	97341	91519.83	2561.54	93597	88577.2	2072.65
		2op	114719	112841.87	947.86	112929	109618.8	1622.76	96731	91476.4	2376.59	92873	89938.73	1438.2
	50	rnd	114707	112001	940.75	114002	110708.77	1451.07	101983	95761.43	2560.53	90503	87952.7	1411.58
51	20	rnd	114704	112775.5	1019.67	113684	111107.43	1136.51	102162	96862.67	2493.7	92046	89161.7	1554.94
		2op	115504	113785.87	1000.94	115439	113358.03	911.35	109313	106093.37	2345.28	99945	96467.1	1839.3
	50	rnd	115536	114142.47	818.13	115648	114314.13	675.37	109552	106693	1797.81	100308	97262.27	1472.25
	20	rnd	114817	113473.13	824.68	114780	113335.63	695.14	112107	109565.97	1762.24	98770	95770.53	1683.86
		2op	115206	113897.7	807.88	115299	113912.97	763.29	113803	110656.9	1633.28	98658	95572.37	1605.01

Table A.2576: $j02459_7$: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115876	115148.5	473.54	115658	114760.37	555.24	115711	114172.5	628.15	112175	109278.07	1626.29
		2op	116279	115490.63	396.01	116125	115329.73	458.05	115870	114733.27	480.4	112231	109886.1	1177.69
	50	rnd	115930	115234	439.72	115578	114964.17	403.23	115878	114384.2	632.24	113439	111943.43	912.59
51	20	2op	116160	115445.57	358.65	115955	115326.27	397.62	116105	115000.63	487.86	114330	112789.13	941.05
		rnd	116034	115082.8	465.58	115898	115145.13	556.69	115860	114963.63	603.96	114826	113584.3	756.21
	50	2op	116226	115534.63	371.52	116328	115575.2	383.42	116085	115226.67	418.33	115297	114350.2	664.3
	20	rnd	116178	115064.37	529.27	116544	115356.37	546.16	115974	115032.03	433.06	115024	114091.73	530.31
		2op	116036	115550.27	323.67	116188	115708.43	308.76	115859	115453.67	272.68	115735	114892.4	435.19

Table A.2577: *j02459_7*: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115583	114526.87	494.24	116122	114484.8	830.37	103111	96117.1	3300	91082	88317.93	1319.45
		2op	115772	115072.73	330.31	115770	115047.5	414.1	102327	96273.1	2896.37	92469	89491.1	1437.08
	50	rnd	115567	114376.77	572.42	115594	113892.43	757.4	101996	97668.1	2264.8	91944	88223.63	1869.41
51	20	2op	115698	114944.2	495.16	115662	114796.47	472.63	105808	99870.27	3628.44	92069	89035.23	1236.05
		rnd	116113	114956.6	504.81	115860	114976.27	509.88	113269	110580.97	1853.81	98967	96431.93	1361.46
	50	2op	115855	115493.4	216.71	116011	115472.47	259.83	114308	111893.6	2053.56	99690	97173.3	1358.07
	20	rnd	116050	114909.6	597.95	116036	115023.33	538.38	114251	112839	1073.35	97698	94941.8	1386.65
		2op	115882	115546.87	193.5	116128	115520.57	245.28	115187	113397.2	1337.05	98865	95124.4	1570.31

Table A.2578: *j02459_7*: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115984	115010.07	505.3	116164	115150.5	505.86	115081	113999.47	528.88	110056	108162.67	1361.79
		2op	116330	115628.57	273.82	116330	115605	274.07	115527	114920.3	416.82	111468	108879.8	1507.77
	50	rnd	115567	114902.6	385.63	115759	114983.8	492.96	115339	114568.03	417.01	113077	111269.5	1145.41
51	20	2op	116216	115591.63	325.82	116241	115537.07	292.8	115994	115106.97	434.18	113958	112182.43	938.16
		rnd	116024	115196.57	411.64	116020	115147	394.81	115855	114961.03	494.58	113992	112678.27	711.43
	50	2op	116182	115520.47	244.91	116182	115512.57	247.73	115911	115385	304.48	114975	113616.33	549.3
	20	rnd	116141	115168.03	397.77	116097	115209.2	524.64	116059	115073.13	579.77	115358	113767.07	772.15
		2op	116455	115843.43	311.17	116454	115820.83	319.93	116369	115586.1	305.69	115230	114285.57	455.09

Table A.2579: *j02459_7*: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38095	37360.77	377.64	37852	36875.03	528.6	35674	33883.23	966.35	31146	29376.77	886.45
		2op	38420	37585.27	626.17	38328	37143.93	635.17	36093	33671.57	1093.48	31403	29800.63	760.2
	50	rnd	38387	37423.2	613.47	38182	36880.87	574.24	36916	35227.43	893.93	31355	29636.3	816.84
51	20	rnd	38368	37691.77	458.38	38194	37190	629.82	37385	35562.8	880.29	31275	29770.67	779.84
		2op	38415	38047.37	284.66	38519	38095.07	276.06	38210	37438.47	491.33	36323	34694.6	596.61
	50	rnd	38411	38103.93	253.86	38437	38137.13	160.34	38361	37622.53	419.58	35701	34720.57	425.88
	20	rnd	38504	38110.1	209.25	38610	38126.13	277.92	38328	37599.1	419.28	36295	34291.17	946.77
		2op	38434	38079.63	275.81	38432	38137.7	212.81	38280	37690.27	308.11	36484	34617.27	933.82

Table A.2580: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38553	38319.53	148.5	38680	38317.77	139.12	38478	38044.77	225.19	37655	36473.97	787.66
		2op	38555	38370.77	133.99	38545	38391.17	103.41	38426	38145.87	169.07	38118	36539.2	762.2
	50	rnd	38585	38326.2	156	38636	38381	168.55	38522	38246.03	164.16	38177	37418.17	519.83
51	20	rnd	38462	38312.67	105.13	38588	38411.9	101.58	38511	38270.33	165.6	38200	37686.23	336.71
		2op	38516	38231.47	186.72	38648	38354.53	148.31	38611	38329.1	179.88	38347	37939.87	284.87
	50	rnd	38554	38372.83	121.32	38550	38423.43	40.79	38547	38390.87	113.48	38414	38027.17	295.37
	20	rnd	38576	38304.43	200.44	38634	38383.03	157.74	38660	38367.57	176.12	38431	38072.43	248.15
		2op	38554	38386.97	71.31	38592	38429.3	66.3	38520	38385.13	91	38494	38243.9	133.38

Table A.2581: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38230	37441.13	452.38	38206	36928.67	643.79	35236	33351.07	1384.24	30899	29246.97	931.22
		2op	38197	37466.23	382.6	38096	37237.73	461.55	35216	33672	1077.01	30610	29388.33	727.36
	50	rnd	38124	37294.83	496.88	37990	37056.7	525.18	36557	35076.53	913.78	30237	29212.47	569.19
51	20	rnd	38379	37566.77	465.28	38195	37017.47	664.6	37113	35406.33	917.81	31139	29543.4	828.65
		2op	38527	37928.9	315.98	38412	38068.9	305.31	38226	37343.2	494.89	35357	34442.63	520.85
	50	rnd	38412	38077.33	300.44	38403	38123.17	238.51	38162	37533.8	483.18	35739	34621.77	474.6
	20	rnd	38587	38056.23	310.14	38413	38037	257.84	38193	37530.33	447.11	36414	34596.8	1068.41
		2op	38375	38049.33	246.73	38395	38097.1	240.67	38316	37775.73	334.35	36496	34590.17	1029.81

Table A.2582: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38659	38278.67	188.08	38575	38360.23	166.07	38496	37973.8	280.32	37724	36371.6	770.34
		2op	38577	38310.33	171.44	38569	38379.43	139.79	38535	38103.63	203.92	37543	36453.73	739.86
	50	rnd	38537	38213.67	173.63	38610	38381.47	164.44	38553	38232.73	174.91	37980	37287.1	474.55
51	20	rnd	38538	38349	130.86	38564	38415.87	97.34	38513	38223.33	151.33	38105	37466.57	423.97
		2op	38612	38282.63	175.59	38585	38361.43	142.67	38566	38260.23	199.29	38422	37795.9	338.19
	50	rnd	38499	38390.9	74.03	38536	38440.27	35.47	38556	38390.93	82.58	38475	37946.83	341.26
	20	rnd	38572	38289.37	153.39	38570	38344.1	183.25	38596	38303.37	174.45	38483	38041.57	248.73
		2op	38557	38395.13	86.3	38569	38444.97	41.96	38544	38391.07	90.15	38459	38174.57	198.62

Table A.2583: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38632	38206.17	237.09	38514	38133.4	270.42	36983	35487.27	1201.89	30713	28827.87	763.89
		2op	38422	38295.07	114.41	38422	38267.77	137.29	36646	34747.03	1082.73	30246	28900.7	757.19
	50	rnd	38664	38296.13	163.61	38550	38154.93	236.95	37589	35978.07	854.72	30438	28685.8	927.85
51	20	rnd	38430	38269.27	167.3	38423	38240.77	183.91	37491	36314.53	755.02	32006	28962.87	1040.87
		2op	38555	38318.63	187.28	38557	38296.6	171.12	38618	38022.73	421.55	34848	33501.37	802.02
	50	rnd	38439	38415.97	14.79	38439	38413.67	15.84	38398	38182.57	208.63	34907	33538.6	709.73
	20	rnd	38528	38340.8	160.43	38651	38408.47	128.83	38472	37956.13	319.12	35180	33303.17	1065.4
		2op	38442	38425.7	13.06	38442	38420.6	15.28	38409	38189.87	191.25	35446	33472.07	861.71

Table A.2584: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38685	38347.53	186.97	38566	38336.47	161.44	38483	37940.93	294.78	37091	35562.27	621.87
		2op	38531	38416.67	33.79	38531	38411.1	36.53	38457	38223.7	173.44	37280	35691.5	890.09
	50	rnd	38629	38344.27	156.75	38616	38363.4	158.81	38486	38111.7	221.39	37693	36885.73	530.43
51	20	rnd	38442	38401.63	42.91	38442	38392.8	45.78	38482	38247.27	123.54	38250	37058.7	582.54
		2op	38586	38295.87	180.62	38581	38281.97	169.85	38633	38238.17	191.55	38259	37714.37	338.27
	50	rnd	38442	38421.37	14.45	38442	38435.5	7.5	38529	38362	54.57	38297	37917.83	276.25
	20	rnd	38566	38316.37	181.34	38639	38291.23	196.48	38515	38191.07	219.12	38219	37807.9	280.84
		2op	38442	38429.83	12.35	38442	38425.53	13.59	38511	38335.27	96.28	38330	37961.13	218.21

Table A.2585: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47891	46586.57	737.18	47235	45774.73	783.31	43270	39898.07	1617.4	37955	36557.1	827.9
		2op	47330	46341.03	657.17	46937	46069	545.85	42267	39889.97	1457.66	38199	36544.53	940.71
	50	rnd	47712	46512.03	798.5	47236	45874.2	778.18	44611	42798.53	1361.01	38531	36201.77	825.79
51	20	rnd	47254	46305.13	568.88	46763	46015.37	617.96	44263	42676.23	1132.16	37923	36024.63	1021.06
		2op	47878	47224.37	436.47	47957	47254.17	404.03	47434	45897.73	887.66	42901	41505.2	578.54
	50	rnd	47755	47215.23	409.04	47758	47360.63	329.33	47211	45999.9	751.63	42955	41356.47	557.93
	20	rnd	47843	47017.27	519.31	47899	47153.97	417.04	47593	46660.47	568.25	43533	41241.33	1024.53
		2op	47582	47046.67	403.27	47742	47373.13	298.31	47667	46815.17	709.12	43528	41276.5	970.85

Table A.2586: *m15421_6*: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47944	47584.5	251.14	47956	47591.1	208.1	47768	47281.53	419.75	47175	45411.8	825.99
		2op	47805	47579.8	205.09	47830	47638.13	130.71	47703	47300.73	251.76	46896	45419.77	877.91
	50	rnd	48034	47643.4	264.44	48048	47605.6	237.38	47871	47410.67	321.14	47415	46550.43	506.92
51	20	rnd	47862	47617.77	163.87	47829	47638.93	149.17	47784	47540.87	210.57	47461	46511.5	628.37
		2op	47969	47578.03	229.08	47918	47609.73	280.98	47930	47589.57	195.93	47828	47117.5	492.45
	50	rnd	47829	47638.17	178.04	47830	47685.7	150.67	47823	47631.1	180.42	47502	47122.27	307.08
	20	rnd	47978	47620.1	180.92	47978	47667.93	191.94	48044	47579	233.09	47723	47317.57	285.6
		2op	47829	47615.9	190.04	47830	47693.67	149.15	47819	47644.1	157.83	47756	47373.13	249.6

Table A.2587: *m15421_6*: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47680	46450.8	685.1	47304	45914.67	766.82	42175	39539.47	1362.1	38394	36222.33	972.51
		2op	47376	46398.07	507.09	47393	45780.37	851.65	41409	39508.9	1145.02	37579	36149.2	812.82
	50	rnd	47750	46363.43	754.59	47318	46003.93	682.77	44197	42260.73	908.35	37790	36269.6	930.45
51	20	rnd	47413	46303.2	609.78	47166	46162.3	640.62	44265	42085.3	1113.15	37547	35858.97	779.32
		2op	48012	47277	452.79	47857	47273.87	358.05	47364	46092.63	897.41	42600	41442.9	708.51
	50	rnd	47580	47109.23	355.6	47758	47382.63	400.63	47015	45825.73	671.42	42770	41263.7	599.29
	20	rnd	47812	47069.7	482.11	47773	47070.93	470.03	47639	46685.77	484.03	43568	41111.83	1252.57
		2op	47749	47034.43	527.01	47739	47457.7	245.86	47697	46776.3	488.17	44642	41190.13	1354.17

Table A.2588: *m15421_6*: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48034	47668.8	186.24	48051	47683.53	230.2	47825	47283.33	332.36	46730	45178.67	861.57
		2op	47814	47656.3	147.41	47798	47642.9	129.65	47738	47376.23	231.6	46487	45305.43	868.37
	50	rnd	47896	47569.73	257.15	48045	47704.47	191.39	47951	47455.13	306.26	47361	46504.77	534.87
51	20	2op	47829	47596.8	204.52	47829	47612.73	204.1	47783	47526.1	184.48	47608	46569.43	724.96
		rnd	47933	47547.13	267.75	48049	47644.53	199.72	47901	47623.93	246.01	47671	47062.1	326.36
	50	2op	47830	47642.87	176.98	47830	47705.6	121.91	47785	47632.2	117.72	47667	47138.47	412.03
	20	rnd	48043	47668.67	229.3	47897	47589.47	248.37	47948	47593.47	233.3	47984	47322.53	331.29
		2op	47804	47634.57	129.39	47829	47689	96.58	47814	47685.73	106.36	47718	47359.9	273.58

Table A.2589: $m15421_6$: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48036	47445.2	361.5	47950	47469.37	289.41	44812	41750.83	1938.44	37676	36113.1	835.05
		2op	47755	47497.57	224.3	47758	47491.4	225.02	45796	41335.6	1951.53	37706	36232.53	863.18
	50	rnd	47964	47523.63	339.31	47942	47487.03	400.38	45741	42991.4	1632.58	37463	35839.03	952.86
51	20	2op	47758	47453.13	286.64	47758	47420.53	295.89	45603	42552.93	1924.49	36885	35619.13	658.79
		rnd	47936	47651.6	215.03	47897	47555.83	254.71	47786	47237.57	342.38	41870	40420.77	773.03
	50	2op	47758	47708.9	74.36	47758	47739.83	33.87	47651	46990.4	542.17	42012	40402.77	722.38
	20	rnd	48036	47647.37	186.86	47886	47573.3	240.31	47898	47259.03	407.35	40909	39491.83	792.39
		2op	47758	47692.7	86.89	47830	47745.5	38.28	47605	47246.97	287.08	40830	39463.03	896.22

Table A.2590: $m15421_6$: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47961	47640.3	195.63	47961	47613.07	213.65	47781	47349.4	257.79	45812	43998.07	934.33
		2op	47830	47683.8	121.74	47827	47681.87	122	47635	47375.93	175.85	45204	44367.33	566.92
	50	rnd	48033	47672.6	218.71	48031	47609.77	227.02	47869	47448.07	241.16	47297	46099.2	556.6
51	20	2op	47830	47721.03	84.92	47830	47719.53	85.82	47793	47521.03	144	47117	46102.93	533.1
		rnd	47917	47522.37	279.28	48052	47654.13	217.57	47925	47515.2	356.09	47651	46782.53	520.45
	50	2op	47758	47728.4	71.47	47758	47754.13	6	47785	47602.57	159.87	47675	46981.77	379.12
	20	rnd	47875	47535.4	315.92	47978	47557.07	236.76	47946	47597	237.66	47551	47141.23	267.71
		2op	47758	47742.77	61.71	47758	47726.4	96.5	47755	47598.37	207.58	47586	47213.23	293.91

Table A.2591: $m15421_6$: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54180	53220.8	513.48	54067	52585.4	750.52	49480	46643.8	1557.4	43877	42734.77	668.47
		2op	54590	53610.77	495.39	54141	52996.1	644.24	48518	46458.27	1258.8	45323	43414.83	769.17
	50	rnd	54576	53287.57	581.43	54226	53026.47	771.31	51981	49473.4	1519.32	43968	42668.8	708.35
51	20	rnd	54565	53836.7	559.47	54465	53521.97	634.67	51362	49284.3	1359.96	44709	43326.33	841.2
		2op	54907	54056.57	412.47	54686	54061.03	390.87	53753	52565.17	740.41	49578	47873.23	627.02
	50	rnd	54665	54156.83	339.25	54708	54192.1	288.89	54286	52977.9	716.23	49307	48617.37	522.19
	20	rnd	54763	54047.47	452.54	54462	53985.67	316.19	54162	53401.6	698.2	50597	48140.33	1099.19
		2op	54677	54214.87	383.61	54714	54198.43	323.38	54520	53671	515.28	51174	48051.33	1106.88

Table A.2592: *m15421_7*: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54921	54459.4	307.49	55101	54423.1	309.29	54678	53997.27	449.98	53672	51849.5	1116.35
		2op	54948	54656.27	154.4	54867	54677.5	122.61	54783	54299.67	292.69	53767	52266.5	947.41
	50	rnd	54939	54401.3	306.73	55137	54616.4	276.43	54852	54274.27	285.12	54479	53368.67	547.51
51	20	rnd	54945	54616.6	241.26	55021	54698.3	222.55	54815	54535.2	217.85	54241	53463.87	603.59
		2op	55025	54349.87	428.08	55169	54531.7	311.81	54752	54338.53	329.49	54549	53864.43	322.87
	50	rnd	54935	54650	128.29	55016	54734.47	90.48	54935	54643.7	147.36	54543	54203.67	316.35
	20	rnd	55022	54397.67	309.97	55131	54663	249.63	54966	54466.9	352.49	54740	54102.77	397.31
		2op	54935	54648.97	113.22	54953	54751.1	73.76	54921	54652.47	109.53	54853	54385.87	287.86

Table A.2593: *m15421_7*: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54414	52995.97	788.15	53872	52830.93	809.52	48956	46174.73	1579.49	44776	42637.3	1043.67
		2op	54376	53510.8	517.89	54148	52959.77	571.72	48941	46263.07	1451.2	44926	43222.93	772.97
	50	rnd	54268	53162.93	760.85	54155	52715.63	831.7	50597	48492.97	1308.57	44473	42257.9	899.37
51	20	rnd	54587	53603.83	515.2	54340	53311.9	705.38	51309	48934.87	1472.56	44351	43031.77	678.93
		2op	54690	53978.1	463.5	54693	53883.07	496.18	53839	52254.7	986.73	49459	47881.97	710.26
	50	rnd	54696	54344.23	277.22	54666	54252.6	367.8	54092	53087.4	682.34	49691	48465.07	517.6
	20	rnd	54791	53892.77	555.15	54783	54082.07	473.07	54202	53180.67	621.72	49893	47907.03	1080.27
		2op	54745	54329.8	200.35	54613	54318.7	217.19	54521	53695.7	471.88	50438	48231.57	911.25

Table A.2594: *m15421_7*: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55146	54499.23	313.5	55081	54462.27	375.02	54863	54109.07	414.26	53950	51959.73	1176.2
		2op	54894	54576.83	196.74	54889	54612.33	156.09	54708	54157.93	324.23	53470	52087.77	767.66
	50	rnd	54846	54364.9	377.83	54933	54470	306.27	54873	54271.7	345.8	54481	53199.23	522.45
51	20	2op	54966	54612.87	234.91	54965	54677.17	160.39	54868	54526.27	255.88	54076	53339.8	413.55
		rnd	55168	54524.37	292.21	54879	54498.83	263.37	54911	54349.3	321.11	54652	53774.53	477.84
	50	2op	54950	54657.4	133.02	54950	54740.17	118.67	54890	54641.53	110.12	54636	54120.57	258.41
	20	rnd	54951	54480.93	296.24	55035	54653.8	305.29	55032	54485.03	270.06	54980	54123.17	442.82
		2op	54951	54667.7	145.04	55033	54757.9	130.51	54935	54654.03	136.7	54801	54404.4	239.36

Table A.2595: $m15421.7$: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54959	54218.6	434.58	54795	54335.3	357.68	51287	47761.83	1880.09	44203	42496.27	806.28
		2op	54745	54573.17	161.33	54942	54546.77	199.97	52151	48824.93	1904.98	44102	42973.3	662.34
	50	rnd	54903	54310.13	291.13	55130	54398.63	391.54	51990	49694.8	1330.25	44414	42264.27	853.71
51	20	2op	54754	54529.8	204.72	54754	54550.2	175.37	51992	49744	1578.72	45438	43208.9	928.91
		rnd	54791	54440.57	279.96	54901	54362.3	308.51	54676	53982.9	481.02	49347	47299.57	814.35
	50	2op	54754	54729.93	23.05	54754	54725.87	25.98	54645	54051.8	521.48	49468	47638.87	897.05
	20	rnd	54938	54508.9	259.68	54970	54521.3	312.36	54859	53926.03	751.49	47864	46385.67	981.74
		2op	54769	54741.9	16.3	54754	54739.33	11.49	54620	54337.57	287.34	48503	46982.2	815.85

Table A.2596: $m15421.7$: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55048	54504	344.53	54828	54440.97	260	54636	54077	292.11	52855	51132.83	1007.99
		2op	54947	54725.63	79.73	54935	54699.73	94.26	54662	54371.83	179.18	52802	51463.2	797.57
	50	rnd	55135	54515.13	326.56	54909	54376.77	324.12	54831	54139.57	431.88	53827	52617.8	572.58
51	20	2op	54868	54705.23	60.17	54809	54699.77	60.8	54763	54516.3	153.19	54024	52930.33	606.42
		rnd	54978	54493.3	367	54978	54419.27	318.6	54937	54448.63	331.81	54240	53339.87	628.6
	50	2op	54754	54745.03	11.22	54754	54744.6	13.2	54900	54673.5	87.83	54509	53801.5	301.74
	20	rnd	55005	54604.03	282.73	54957	54411.43	404.55	54805	54339.53	328.32	54703	53879.63	507.69
		2op	54754	54748.33	4.87	54754	54741.37	9.87	54721	54602.83	83.73	54582	54193	294.48

Table A.2597: $m15421.7$: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11321	11096.27	183.27	11478	11266.87	118.33	11433	11027.87	227.95	10707	10089.57	312.58
		2op	11109	10940.03	141.67	11305	11217.2	73.4	11109	10885.67	180.49	10421	10037.6	201.11
	50	rnd	11366	11040.43	196.4	11478	11249.8	119.75	11411	11177	161.94	11089	10208.63	359.81
51	20	rnd	11109	10924.77	164.88	11410	11247.73	78.5	11305	11111.43	89.26	10674	10175.47	223.44
		2op	11411	11170.27	165.29	11478	11291.77	126.35	11478	11268.73	143.47	11411	11223.7	120.65
	50	rnd	11109	10994.97	90.51	11256	11119.5	38.11	11305	11182.37	88.88	11109	11063.83	77.01
	20	rnd	11394	11122.6	131.51	11478	11306.4	107.74	11478	11230.17	132.84	11478	11142.07	209.47
		2op	11109	11050.17	110.18	11373	11182.27	97.48	11305	11243.43	65.92	11109	11005.87	106.82

Table A.2598: $x60189_4$: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11394	11228.13	126.42	11478	11247.83	127.15	11413	11208.93	126.3	11365	11179.9	131.6
		2op	11285	11081.87	95.08	11394	11265.23	70.88	11346	11174.5	94.4	11325	11127	129.01
	50	rnd	11478	11223.4	199.37	11478	11275.77	105.34	11478	11287.63	135.73	11478	11211.83	148.65
51	20	rnd	11346	11121.47	115.89	11373	11278.67	66	11346	11197.63	99.32	11305	11160.67	132.12
		2op	11478	11170.13	163.41	11478	11242.97	151.91	11478	11234.03	125.44	11478	11195.53	173.57
	50	rnd	11346	11068.57	88.78	11305	11126.3	53.18	11373	11205.63	89.18	11285	11114.37	36.15
	20	rnd	11478	11191.1	146.61	11478	11305.87	115.65	11478	11283.77	144.83	11478	11231.37	163.36
		2op	11153	11082.8	44.47	11411	11201.57	94.54	11394	11277.87	60.17	11153	11105.93	22.46

Table A.2599: $x60189_4$: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11125.67	222.38	11478	11214.43	153.81	11352	10923.47	280.91	10546	9815.73	361.74
		2op	11127	10896.87	154.43	11394	11189.9	106.94	11166	10828.4	175.22	10705	9826.77	258.19
	50	rnd	11413	11044.83	298.86	11478	11274.07	130.21	11411	11116.43	205.94	10804	10208.37	271.5
51	20	rnd	11109	10873.43	225.1	11373	11233.83	99.08	11305	11051.7	145.34	10886	10115.1	337.6
		2op	11411	11163.67	185.39	11413	11251.9	107.88	11478	11328.23	108.08	11470	11234.3	135.72
	50	rnd	11109	11038.9	45.8	11305	11111.77	38.44	11305	11182.33	87.71	11109	11086.97	40.4
	20	rnd	11413	11178.37	167.07	11478	11250.97	122.7	11478	11321.73	118.04	11478	11206.9	199.39
		2op	11109	11013.17	97.28	11373	11169.97	91.46	11410	11262.3	81.68	11109	10965.6	116.92

Table A.2600: $x60189_4$: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11220.4	178.01	11478	11298.23	125.15	11478	11254.07	145.9	11413	11146.43	160.74
		2op	11346	11136.87	124.15	11394	11286.47	51.14	11346	11150.07	90.26	11370	11108.53	147.98
	50	rnd	11478	11201.1	122.65	11478	11274.97	142.46	11413	11247.37	105.41	11476	11248.23	133.9
51	20	rnd	11478	11182.57	137.5	11478	11202.17	144.93	11411	11235.27	93.71	11478	11197.47	170.15
		2op	11109	11046.13	42.68	11305	11134.47	66.12	11373	11165.47	89.61	11285	11111.6	38.56
	50	rnd	11478	11186.97	178.68	11478	11298.9	142.15	11478	11298.63	116.22	11478	11288.1	150.56
	20	rnd	11478	11220.4	178.01	11478	11298.23	125.15	11478	11254.07	145.9	11413	11146.43	160.74
		2op	11346	11136.87	124.15	11394	11286.47	51.14	11346	11150.07	90.26	11370	11108.53	147.98
	50	rnd	11478	11201.1	122.65	11478	11274.97	142.46	11413	11247.37	105.41	11476	11248.23	133.9

Table A.2601: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11413	11215.53	160.43	11410	11229.4	131.74	11413	10961.03	363.44	9549	8912.2	286.79
		2op	11109	11073.17	52.76	11373	11144.67	81.5	11151	10793.83	234.89	9768	8870.7	357.82
	50	rnd	11394	11243.7	105.9	11478	11241.67	118.86	11478	10872.7	310.3	9926	9187.3	452.95
51	20	rnd	11256	11094.43	52.78	11305	11121.13	73.72	11193	10827.17	282.46	9748	9211.47	312.63
		2op	11413	11243	91.18	11478	11268.67	100.59	11476	11187.73	190.6	11191	10562.4	302.14
	50	rnd	11109	11093.67	34.87	11305	11187.77	76.41	11305	11098.83	71.72	10946	10513.5	251.88
	20	rnd	11413	11228.17	120.1	11478	11303.47	100.23	11478	11219.33	106.97	11303	10658.07	355.45
		2op	11109	11099.8	28.07	11373	11186.47	88.91	11151	11053.83	111.54	10997	10521.9	326.16
	50	rnd	11413	11228.17	120.1	11478	11303.47	100.23	11478	11219.33	106.97	11303	10658.07	355.45

Table A.2602: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11222.77	144.12	11478	11273.9	129.46	11478	11102.57	206.36	11245	10313.93	507.56
		2op	11109	11092.13	35.18	11394	11280.63	67.2	11245	10980.43	178.19	10909	10350.13	320.54
	50	rnd	11478	11182.6	169.6	11478	11281.33	109.48	11478	11198.2	136.62	11442	10783.73	314.25
51	20	rnd	11256	11095.37	46.59	11394	11238.67	89.57	11289	11066.63	114.92	11144	10861.53	205.31
		2op	11478	11214.3	139.37	11478	11273.37	145.16	11478	11247.23	121.13	11478	11033.6	202.31
	50	rnd	11109	11092.07	35.24	11305	11153.1	81.74	11254	11098.43	52.39	11256	10962.77	194.51
	20	rnd	11411	11222.27	128.65	11478	11265.73	146.17	11478	11217.2	153.26	11411	11133.1	164.38
		2op	11257	11101.67	43.21	11305	11143.07	72.44	11305	11089.37	59.19	11305	11040.93	166.83
	50	rnd	11411	11222.27	128.65	11478	11265.73	146.17	11478	11217.2	153.26	11411	11133.1	164.38

Table A.2603: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13817.8	182.59	14157	13979.27	122.89	14015	13438.03	273.84	13528	12662.5	358.97
		2op	13967	13714	151.17	14157	13990.73	84.84	13885	13641.07	148.91	13094	12767.83	210.76
	50	rnd	14161	13821.57	211	14137	13953.87	133.87	14059	13759.37	188.85	13340	12781.83	332.65
51	20	rnd	13932	13738.9	142.21	14157	14039.67	51.31	13968	13853.83	93.41	13301	12766.4	261.22
		2op	14161	13885.97	144.05	14161	13898.73	168.07	14161	13944.27	137.1	14153	13825.97	155.03
	50	rnd	13938	13808.33	60.94	14062	14004.43	34.59	14038	13978.57	31.88	13879	13742.5	109
	20	rnd	14161	13891.77	160.94	14161	13940.93	123.96	14161	13994.47	131.85	14009	13670.07	160.45
		2op	13899	13811.67	54.67	14059	13999.23	47.84	14157	14019.83	46.95	13981	13686.8	138.83

Table A.2604: $x60189_5$: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14119	13843.9	147.44	14161	13955.77	115.05	14062	13902.27	112.32	14046	13787.97	141.74
		2op	14038	13895.13	102.04	14157	14012.43	58.34	14157	13895.2	140.66	14011	13738.27	157.85
	50	rnd	14157	13827.23	206.66	14137	13917.23	126.94	14161	13929.6	147.5	14127	13820.63	193.03
51	20	rnd	14133	13909	112.34	14157	14038.97	69.04	14133	13955.9	79.18	14078	13842	121.03
		2op	14155	13840.5	185.98	14137	13877.5	135	14139	13924.1	130.29	14128	13889.4	151.4
	50	rnd	14038	13868.57	84.54	14157	14012.53	60.44	14038	13989.47	30.88	14038	13932.87	94.52
	20	rnd	14071	13810.2	193.72	14161	13942.97	133.13	14139	13949.23	130.09	14161	13849.4	157.31
		2op	13995	13903.53	76.31	14157	14035.53	65.66	14157	14013.97	51.44	14038	13889	95.51

Table A.2605: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13856.2	166.81	14161	13962.2	131.7	13938	13465.5	280.22	13192	12573.67	300.16
		2op	13892	13739.77	147.15	14157	13981	60.56	13915	13577.03	228.69	13036	12627.4	288.5
	50	rnd	14137	13767.83	167.85	14161	13974.07	113.05	14055	13697.33	249.77	13278	12695.83	315.25
51	20	rnd	13948	13749.37	104.52	14157	14024.8	53.43	13983	13775.7	122.43	13213	12723.9	213.65
		2op	14161	13884.9	164.34	14161	13928.73	172.86	14157	13931.33	138.95	14012	13753.9	164.36
	50	rnd	13853	13784.33	57.76	14157	14017.77	52.53	14038	13985.17	45.04	13968	13754.23	95.27
	20	rnd	14161	13914.37	145.55	14161	13934.6	137.54	14161	13997.6	107.2	14157	13762.6	208.58
		2op	13873	13791.57	43.6	14064	14001.07	54.97	14157	14013.17	52.3	13936	13671.43	140.66

Table A.2606: $x60189_5$: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14133	13826	182.08	14139	13956.2	142.84	14146	13920	146.65	13968	13656.57	183.51
		2op	14038	13901.97	101.27	14157	14022.5	67.93	14157	13890.23	122.28	13937	13737.03	128.26
	50	rnd	14128	13860.77	126.98	14157	13958.37	161.75	14157	13922.53	148.06	14113	13831.63	191.34
51	20	rnd	14135	13853.53	152.54	14137	13875.1	123.05	14161	13903.53	151.76	14161	13924.8	181.23
		2op	14038	13870.2	89.4	14157	13993.53	51.05	14133	13997.57	36.35	14031	13898.7	97.39
	50	rnd	14139	13865.6	174.76	14161	13962.33	130.7	14161	13980.03	134.44	14161	13800.97	191.17
		2op	14038	13898.97	103.43	14133	13992.63	40.84	14157	14027.1	67.48	14038	13885.9	107.11

Table A.2607: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14157	13932.2	141.58	14161	13948.9	113.54	14047	13672.13	281.55	12277	11498.43	422.1
		2op	13938	13842.5	53.55	14094	13947.2	73.6	13916	13590.57	233.35	12546	11598.13	449.58
	50	rnd	14139	13972.8	139.03	14161	13949.67	125.4	14002	13596.5	289.09	12595	11780.97	459.23
51	20	rnd	13877	13837.17	27.1	14038	13964.8	51.08	13987	13581.73	331.52	12470	11705.3	402.45
		2op	14161	13932.43	165.21	14161	13945.1	119.33	14133	13850.47	182.15	13876	13320.93	208.35
	50	rnd	13938	13849.27	47.88	14089	13939.73	68.25	14038	13852.4	125.11	13709	13264.23	240.16
		2op	14139	13966.73	140.28	14062	13948.3	99.7	14133	13858.73	166.78	13913	13298.97	327.3
			13968	13858.27	40.81	14038	13942.33	74.54	13995	13847.57	109.16	13617	13252.23	283.87

Table A.2608: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14155	13852.83	179.52	14139	13958.87	96.36	14112	13735	193.39	13900	13220.27	409.99
		2op	14038	13928.43	70.9	14064	14011.5	33.81	13929	13735.13	156.32	13629	13198.1	302.87
	50	rnd	14161	13844.83	193.62	14139	13927.13	141.41	14036	13751.23	157.97	13836	13500.97	261.22
51	20	rnd	14038	13976.97	61.25	14064	13996.93	22.83	14038	13892.07	116.39	13827	13532.97	217.58
		2op	14135	13876.47	136.74	14161	13893.8	126.98	14139	13870.3	166.4	14075	13678.17	227.14
	50	rnd	14038	13927.9	79.28	14064	13981.43	26.13	14038	13893.5	98.39	13941	13657.6	217.95
		2op	14071	13863.83	120	14133	13916.9	137.89	14161	13901.9	151.22	14085	13793.37	162.89
			14038	13971.27	42.96	14038	13982.7	35.96	14038	13908.2	78.68	13938	13678.47	120.79

Table A.2609: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18143	17853.83	179.91	18165	17855.73	226.77	17847	17067.6	340.59	16285	15538.33	371.7
		2op	18017	17860	215.63	18017	17939.13	114.75	17737	17125.33	353.63	16618	15670.8	367.85
	50	rnd	18156	17825.87	172.64	18301	18014.9	176.49	18301	17336.43	446.31	16506	15628.53	488.41
51	20	rnd	18017	17915.6	168.34	18017	17984.57	55.99	17993	17464.7	301.9	16306	15730.07	306.65
		2op	18184	17885.33	221.03	18301	17953.23	140.4	18291	17885.53	177.51	17982	17524.87	211.59
	50	rnd	18017	17996.97	37.96	18017	18015.57	6.51	18017	17990.9	28.32	17779	17607.7	137.71
	20	rnd	18184	17963.8	183.41	18176	17924.37	158.66	18195	17937.23	169.98	17886	17345.5	278.1
		2op	18017	17997.93	34.59	18017	18017	0	18017	17997.67	23.84	17944	17502.4	282.56

Table A.2610: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18093	17867.93	161.37	18136	17986.6	127.15	18283	17950.5	181.99	17922	17622.5	200.88
		2op	18074	17979.47	97.95	18042	18014.63	11.57	18123	17927.67	111.5	18010	17679.97	151.29
	50	rnd	18175	17852.37	190.87	18181	17989.33	163.35	18172	17943.93	178.5	18254	17792.83	190.29
51	20	rnd	18017	17996.47	24.41	18142	18023.63	25.5	18142	18002.13	78.94	18008	17797.2	131.86
		2op	18184	17875.3	170.12	18171	17960.73	134.02	18301	17924.6	185.16	18167	17898.63	191.56
	50	rnd	18017	18007.33	19.72	18017	18017	0	18142	18020.97	22.89	18012	17960.43	34.28
	20	rnd	18114	17821.67	185.36	18125	17912.17	180.96	18156	17947.7	129.62	18156	17867.67	178.21
		2op	18017	18004.13	20.52	18017	18017	0	18017	18017	0	18007	17950.03	50.17

Table A.2611: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18184	17820.63	206.43	18171	17814.83	211.91	17837	16981.37	399.29	16286	15342.53	399.76
		2op	18017	17840.13	169	18017	17856.6	168.89	17838	17097.4	421.08	16390	15505.17	394.39
	50	rnd	18172	17765.9	262.89	18275	17971.9	162.46	17848	17228.1	333.23	16330	15578.97	434.27
51	20	rnd	18017	17875.57	199	18017	17966.23	99.42	17896	17411.97	287.45	16190	15677.27	275.07
		2op	18175	17883.13	169.45	18186	17936.27	152.05	18275	17906.8	222.89	17881	17419.73	229.4
	50	rnd	18017	17971.6	108.64	18017	18017	0	18017	17981.43	41.7	17814	17584.8	117.5
	20	rnd	18142	17911.6	132.51	18301	17973.13	161.94	18165	17941.3	156.61	18000	17346.03	347.32
		2op	18017	17977.47	87.68	18017	18017	0	18017	18002.67	20.38	17845	17413.53	241.5

Table A.2612: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18176	17864.87	191.94	18171	17927.53	151.28	18159	17942.5	143.38	17888	17568.57	228.6
		2op	18142	17988.33	88.79	18097	18009.97	35.86	18131	17971.63	85.11	18001	17581.87	187.71
	50	rnd	18109	17895.8	147.6	18301	17955.97	158.26	18172	17937.43	157.63	18128	17772.3	200.52
51	20	2op	18142	17995.5	61.85	18064	18014.83	23.76	18142	17989.73	77.81	17995	17761.27	138.69
		rnd	18275	17873.43	163.72	18131	17960.23	133.19	18275	17994.03	143.04	18072	17804.73	161.26
	50	2op	18142	18015.63	28.26	18017	18017	0	18142	18021.17	22.82	18017	17960.63	42.3
	20	rnd	18301	17944.2	162.28	18301	17959.37	149.98	18301	17949.87	154.26	18053	17899.7	114.33
		2op	18017	17994.2	50.77	18017	18017	0	18017	18017	0	18017	17922.97	67.35

Table A.2613: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18165	17924.7	171.93	18123	17918.67	157.41	18097	17326.6	503.51	15941	14897.17	549.15
		2op	18017	18016.4	3.29	18017	18013.07	8.07	17929	17405.8	361.2	16102	14905.77	502.55
	50	rnd	18184	17956.57	125.7	18172	17927.97	156.85	18109	17588.77	301.6	15782	14743.8	553.08
51	20	2op	18017	18006.03	56.76	18017	18008.63	21.08	18017	17589.8	275.04	16196	14807.33	493.04
		rnd	18175	17959.33	156.93	18175	17955.77	174.29	18290	17959.13	154.87	17299	16672.37	346.92
	50	2op	18017	18017	0	18017	18017	0	18017	17984.8	69.73	17396	16850.87	314.02
	20	rnd	18142	17939.47	149.86	18142	17957.83	150.99	18184	17842.7	210.59	17565	16787.83	402.06
		2op	18017	18017	0	18017	18017	0	18017	17965.37	86.35	17563	16838.43	430.48

Table A.2614: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17880.17	228.29	18181	17977.77	143.84	18135	17823.17	159.37	17599	16984.63	331.55
		2op	18017	18017	0	18017	18017	0	18014	17910.93	99.01	17845	17118.7	353.5
	50	rnd	18084	17872.13	130.75	18301	18014.53	122.88	18155	17837.3	201.06	18007	17571.03	224.13
51	20	2op	18017	18015.83	6.39	18017	18016.2	4.38	18017	17948.6	69.2	17907	17524.37	227.32
		rnd	18181	17909.67	209.11	18165	17933.23	163.17	18056	17841.33	184.64	18271	17732.47	222.41
	50	2op	18017	18017	0	18017	18017	0	18017	18001.33	29.5	18107	17839.53	113.85
	20	rnd	18176	18012.1	123.17	18152	17938.43	139.99	18175	17969.13	127.03	18146	17860.8	141.16
		2op	18017	18017	0	18017	18017	0	18017	17993.3	27.4	18048	17874.57	108.53

Table A.2615: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21136	20773.17	246.36	21064	20771.4	228.23	20776	19956.37	418.93	19195	18357.4	369.61
		2op	20829	20630.37	191.46	20987	20738.47	108.94	20771	19865.2	462.35	19077	18330.4	369
	50	rnd	21173	20762.1	278.32	21192	20903.27	198.57	20873	20234.2	393.94	19358	18427.5	507.79
51	20	rnd	20945	20640.13	173.46	21057	20924.2	86.12	20793	20210.03	334.68	19228	18382.7	455.08
		2op	21136	20867.8	166.03	21186	20974.87	166.16	21144	20794.97	247.7	20745	20408.2	211.93
	50	rnd	20829	20772.3	72.18	20997	20863.87	68.74	20829	20753.6	86.29	20641	20280.8	220.84
	20	rnd	21210	20918.53	198.69	21212	20909.33	181.22	21181	20912.9	142.32	20815	20307.17	339.05
		2op	20843	20773.4	79.03	21057	20913.73	88.46	20931	20780.73	71.11	20829	20134.8	384.24

Table A.2616: $x60189.7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21184	20864.47	190.37	21178	20924.9	178.13	21204	20900.43	251.28	20873	20509.67	225.68
		2op	21161	20841.6	126.64	21193	20931.57	107.89	21152	20882.33	121.23	20939	20547.1	206.42
	50	rnd	21162	20826.03	233.98	21176	20963.67	138.93	21268	20913.77	173.41	21095	20728.63	235.93
51	20	rnd	21101	20847.83	125.92	21190	21028.33	81.25	21206	20939.53	124.62	21089	20713.57	184.34
		2op	21172	20834.17	213.84	21196	20916.83	191.31	21186	20962.23	155.89	21125	20797.83	229.4
	50	rnd	21015	20850.57	65.45	21057	20903.6	82.86	21015	20860.43	59.19	21024	20832.4	98.63
	20	rnd	21238	20816.03	285.37	21186	20935.27	177.58	21212	20954.23	141.9	21126	20860.2	202.9
		2op	21025	20845	47.59	21154	20951.6	93.87	21166	20876.6	83.17	21146	20868.43	122.52

Table A.2617: $x60189.7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21136	20663.6	298.85	21157	20782.73	229.8	20842	20056.8	399.13	18639	18090.27	389.03
		2op	20997	20679.17	165.49	21057	20767.9	100.96	20590	19889.6	413	18679	18138.1	339.76
	50	rnd	21181	20867.13	177.28	21218	20887.07	197.56	21000	20043.17	507.62	19097	18289.87	428.25
51	20	rnd	20880	20690.17	139.93	21051	20873.27	97.46	20766	20243.17	336.75	19468	18356.63	433.87
		2op	21173	20880.3	196.27	21196	20945.57	177.28	21161	20760.77	207.25	20687	20323.33	195.33
	50	rnd	20889	20788.47	84.89	21057	20884.63	70.56	20829	20734.07	93.88	20558	20252.47	202.8
	20	rnd	21173	20844.8	186.24	21169	20912.1	183.84	21161	20904.7	163.81	20906	20303.37	328.31
		2op	20922	20761.4	89.55	21057	20910.03	68.42	20997	20796.67	83.63	20735	20167.17	300.1

Table A.2618: $x60189.7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21175	20870.67	206.67	21135	20942.63	172.64	21130	20806.43	210.7	21115	20439.9	298.73
		2op	21154	20869	108.87	21210	20902.8	93.82	21217	20885.37	134.07	20793	20456.93	207.73
	50	rnd	21233	20881.27	219.5	21212	20994.23	138.92	21149	20784.4	227.68	20946	20640.57	185.97
51	20	rnd	21077	20887.9	105.6	21128	20992.67	74.1	21139	20904.03	123.11	21049	20712.7	200.71
		2op	21171	20835.33	230.68	21161	20917.97	160.18	21203	20887.33	239.32	21211	20810.67	198.04
	50	rnd	21052	20847.37	82.95	21193	20920.6	94.07	21115	20856.67	65.9	21197	20818.7	127.01
	20	rnd	21153	20871.87	189.99	21177	20963.5	173.68	21187	20988.37	116.49	21138	20836.7	168.06
		2op	21123	20858.17	92.65	21115	20978.33	87.27	21047	20891.37	81.66	21122	20845.4	100.57

Table A.2619: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21218	20950.1	169.39	21165	20848.2	208.15	20954	20323.87	400.49	18699	17382.47	686.56
		2op	20829	20806.5	33.68	20833	20806.03	34.25	20870	20183.87	369.91	18227	17221.87	542.78
	50	rnd	21215	20906.53	211.71	21161	20886.33	163.17	21081	20300.47	455.34	18602	17293.63	605.32
51	20	rnd	20911	20813.73	43.85	20911	20811.33	46.02	20769	20369.93	326.44	18683	17314	664.89
		2op	21203	20882.17	199.51	21210	20990.07	159.06	21271	20912.13	208.43	20408	19504.93	381.37
	50	rnd	20889	20831	10.95	21059	20904.97	92.26	20987	20812.3	66.53	20084	19448.43	278.55
	20	rnd	21203	20915.8	153.04	21200	21002.2	140.44	21202	20788.3	226.86	20545	19809.5	406.56
		2op	20997	20844.3	42.09	21059	20924.47	80.22	20987	20777.67	128.41	20427	19684.23	520.19

Table A.2620: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21245	20879.03	218.16	21270	20960.17	150.45	21116	20790.1	209.49	20730	19810.13	533.42
		2op	21029	20839.6	40.18	21193	20902.1	103.36	21019	20805	119.49	20420	19741.3	464.13
	50	rnd	21271	20905.13	164.41	21226	20999.53	140.03	21190	20782.47	185.47	20856	20361.63	320.73
51	20	rnd	21019	20857.93	59.09	21193	20913.73	114.62	21159	20865.27	121.99	21048	20446.6	325.77
		2op	21157	20873.8	189.74	21202	20923.2	191.87	21160	20878.87	221.81	21120	20647.47	255.87
	50	rnd	20889	20831	10.95	21047	20888.37	73.29	20987	20830.27	50.1	20931	20677.83	180.89
	20	rnd	21196	20881.1	180.63	21166	20878.37	181.78	21211	20892.83	216.62	21150	20733.83	215.59
		2op	21193	20868.4	106.42	21209	20987.13	131.12	21009	20849.53	72.41	21131	20813.9	119.23

Table A.2621: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	587.6	4.28	595	592.23	1.92	595	591.8	2.12	588	578.5	4
		2op	596	590.63	3.5	596	593.67	1.63	595	592.27	2.16	588	580.17	3.96
	50	rnd	594	589.2	3.1	596	593.87	1.63	596	593.4	1.77	592	583.87	3.6
51	20	2op	595	591.17	2.64	596	594.07	1.48	596	593.63	1.47	591	583.37	4.12
		rnd	596	590	3.38	596	593.07	1.7	596	594	1.41	595	592.33	1.73
	50	2op	595	592.07	3.1	596	594.33	1.03	596	595	0.45	595	594.1	1.54
		rnd	596	590.7	3.09	596	593.93	1.41	596	594.5	1.25	595	592	2.05
		2op	595	591.73	3.3	596	594.93	0.78	596	595.2	0.61	596	594.03	1.73

Table A.2622: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.27	2.95	596	593.33	1.86	596	593.23	2.22	595	589.27	3.65
		2op	596	592.33	2.51	596	593.8	2.2	596	593.83	1.8	594	588.77	4.82
	50	rnd	596	592.13	2.99	596	594.07	1.98	596	594.6	1.07	595	590.4	3.76
51	20	2op	595	593.07	1.8	596	594.33	1.24	596	594.17	1.23	595	591.8	2.51
		rnd	595	591.13	2.39	596	593.67	1.71	596	593.4	3.76	596	592.73	2.45
	50	2op	595	593.23	2.66	596	594.57	1.25	596	594.9	0.8	596	594.43	1.01
		rnd	596	592.5	2.22	596	594.53	1.17	596	594.53	1.43	596	593.77	1.81
		2op	595	593	2.32	596	594.83	1.02	596	595.23	0.63	596	594.3	1.09

Table A.2623: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	588.4	4.44	595	591.7	2.1	596	591.53	2.93	586	576.97	5.64
		2op	595	587.67	3.96	596	593	1.8	595	592.9	1.79	585	577.23	3.61
	50	rnd	594	588.37	3.54	596	593.3	1.47	595	593.33	1.47	588	579.6	4.23
51	20	2op	595	590.03	3.49	596	593.93	1.31	595	593.43	1.28	587	580.07	3.96
		rnd	596	590.67	3.77	596	593.17	1.49	596	594.3	1.51	595	592.6	2.34
	50	2op	595	592.63	2.37	596	594.53	1.07	596	594.9	0.55	595	594.53	1.17
		rnd	596	589.4	3.53	596	594.17	1.12	596	594.63	0.93	596	591.87	1.76
		2op	596	592.13	3.22	596	594.8	0.89	596	594.8	0.66	596	593.27	1.89

Table A.2624: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	590.57	3.54	596	593.63	2.24	596	592.87	2.19	595	589.77	2.56
		2op	596	591.7	3.23	596	593.93	1.68	596	593.23	1.87	595	590.93	3.16
	50	rnd	595	591.07	2.75	596	594.4	1.3	596	594.23	1.19	595	591.1	3.57
51	20	rnd	595	592.23	2.45	596	594.7	1.24	596	594.13	1.63	595	591	2.95
		2op	595	590.67	3.42	596	593.53	1.7	596	594.43	1.61	595	593.1	1.49
	50	rnd	595	593.27	1.39	596	594.8	0.61	596	594.87	0.86	596	594.63	1.27
	20	rnd	596	591.67	2.59	596	594.73	0.91	596	594.47	1.25	596	593.33	1.99
		2op	596	593.33	2.23	596	594.9	0.84	596	595.03	0.85	596	593.53	1.63

Table A.2625: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.03	2.74	596	593.47	1.61	593	580.53	6.12	574	553.87	7.96
		2op	596	593.53	1.74	596	594.37	0.96	595	580.87	6.61	567	551.47	5.21
	50	rnd	596	591.77	2.36	596	592.97	1.65	593	581.57	4.61	580	555.63	9.72
51	20	rnd	595	593.43	1.63	595	593.63	1.3	592	582.47	4.45	573	555.5	7.69
		2op	596	591.33	2.51	596	593.53	1.61	596	591.23	1.74	589	581.6	4.4
	50	rnd	595	593.73	1.26	596	594.5	0.68	595	592.57	1.91	594	582.53	6.06
	20	rnd	596	593	1.91	596	593.33	1.6	595	589.13	2.8	593	578.3	9.31
		2op	596	594.53	0.9	596	594.6	0.56	595	590.17	3.5	589	576.6	6.03

Table A.2626: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.77	2.71	596	594	1.34	591	582.17	5.69	588	558.1	12.18
		2op	596	594.33	0.71	596	595.07	0.58	592	584.5	5.75	585	558.53	10.89
	50	rnd	595	591.77	2.01	595	593.2	1.75	595	587.27	5.88	587	568.1	10.84
51	20	rnd	596	593.93	1.41	596	594.63	1.25	594	587.83	4.96	593	570.97	9.97
		2op	596	592.83	1.97	596	594.3	1.12	596	592.03	3.06	593	581.6	6.45
	50	rnd	595	594.13	0.35	596	595.03	0.41	595	593.07	2.39	595	581.07	10.28
	20	rnd	596	592.83	1.53	596	593.87	1.53	596	592.33	2.47	595	584.9	7.41
		2op	596	594.67	0.55	596	595.03	0.32	595	593.6	1.57	594	583.43	6.76

Table A.2627: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	766.1	6.65	777	773.8	2.3	777	773.13	2.18	766	758.17	5.33
		2op	775	765.73	5.83	777	773.27	2.05	775	772.2	1.92	765	758.3	4.88
	50	rnd	777	769.87	3.67	776	774.17	1.34	777	775	1.34	772	763.23	4.05
51	20	rnd	777	768.53	3.2	777	773.83	1.66	777	774.43	1.61	769	762.37	3.52
		2op	777	770.8	3.25	777	773.53	2.22	777	774.17	1.91	777	772.57	2.24
	50	rnd	770	767.17	4.88	776	772.37	2.24	777	773.23	1.41	774	771.4	1.96
	20	rnd	777	771.9	2.93	777	774.43	1.99	777	775.63	1.07	777	772.27	3.39
		2op	770	768.17	1.97	777	773.63	1.9	777	774.93	1.55	775	772.4	1.67

Table A.2628: f_{25_400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	770.8	4.87	777	774.37	2.37	777	773.8	2.58	777	770.67	6.49
		2op	775	769	3.15	777	774.63	1.97	777	773.17	1.82	775	768.63	3.69
	50	rnd	777	772.03	5.08	777	775.33	1.47	777	775.03	1.81	777	771.73	3.35
51	20	rnd	775	770.4	4.96	777	775.4	1.4	777	774.73	1.76	777	771.87	3.59
		2op	777	770.73	5.22	776	773	2.92	777	773.87	2.18	777	772.63	2.66
	50	rnd	775	769.03	2.13	777	772.53	4	775	773.27	1.08	774	771.67	1.56
	20	rnd	777	772	4.59	777	774.53	1.53	777	775.27	1.48	777	774.1	1.88
		2op	774	769.53	2.05	777	774.2	2.14	777	775.03	1.77	775	772.43	1.5

Table A.2629: f_{25_400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	766.93	4.62	777	773.97	1.73	777	772.07	2.6	771	755.5	5.82
		2op	774	766.1	5.43	777	773.33	1.69	776	771.17	2.78	767	756.3	5.32
	50	rnd	775	768.83	4.01	777	774.2	1.47	777	774.17	1.56	770	761.5	4.28
51	20	rnd	774	768.3	3.69	777	773.67	1.49	777	774.63	1.67	771	760.07	4.27
		2op	775	769.17	3.51	777	773.37	2.28	777	773.8	1.94	777	773.23	2.58
	50	rnd	771	767.57	2.6	777	771.8	2.12	776	773.17	1.44	774	771.37	1.63
	20	rnd	777	770.73	3.73	777	774.37	1.87	777	774.47	1.55	777	773.3	2.44
		2op	775	769.57	2.34	777	773.93	1.84	777	774.2	1.58	776	772.07	2.05

Table A.2630: f_{25_400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.53	2.81	777	774.77	1.85	777	773.97	2.06	775	769	5.63
		2op	777	770.9	2.94	777	774.47	2	777	772.63	2.22	775	767.2	6.57
	50	rnd	777	772.7	2.9	777	774.77	1.43	777	774.67	1.52	777	771.53	2.92
51	20	2op	775	770.83	1.91	777	774.63	1.75	777	775.2	1.4	777	770.87	2.89
		rnd	777	771.13	4.68	777	773.77	2.36	777	774.1	1.84	777	772.93	3
	50	2op	775	767.97	4.59	776	772.87	2.16	777	773.43	1.57	775	771.37	3.11
	50	rnd	777	773.73	1.93	777	774.7	1.78	777	775.7	1.15	777	773.43	2.84
		2op	775	769.97	2.51	777	773.93	1.48	777	775	1.84	777	772.7	1.95

Table A.2631: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	770.23	3.78	776	773.43	1.55	775	761.9	6.98	749	722.8	9.97
		2op	773	769.33	1.52	777	773.27	1.87	770	761.17	5.15	741	718.47	12.66
	50	rnd	777	771.53	3.26	777	773.07	1.44	771	761.47	4.56	756	722.3	12.44
51	20	2op	775	769.6	2.08	777	773.23	2.05	770	761.93	3.55	761	725.1	16.96
		rnd	775	770.9	3.58	777	773.13	2.49	777	772.97	2.55	776	761.8	7.4
	50	2op	771	769.6	0.62	777	772.53	2.26	777	770.33	2.23	771	760.3	6.04
	50	rnd	777	772.1	2.44	777	773.27	2.07	777	770.27	2.82	775	755.83	10.87
		2op	772	769.77	1.01	777	772.27	2	771	768.8	1.42	770	754.23	10.32

Table A.2632: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	770.6	3.35	776	773.87	1.74	775	762.6	10.52	775	730.7	18.63
		2op	775	769.6	1.92	777	773.83	1.6	770	761.83	5.36	767	735.07	16.93
	50	rnd	777	772.43	2.66	777	774.8	1.54	775	768.97	5.33	775	747.6	13.81
51	20	2op	777	770.67	2.77	777	774.07	1.62	775	767.87	5.67	766	746.2	11.8
		rnd	777	771.63	2.77	777	773.4	2.47	777	772.3	3.26	774	757.4	13.49
	50	2op	772	769.63	0.93	777	772.13	1.78	774	771.03	1.96	770	757.27	9.94
	50	rnd	777	773.73	2.23	777	774.03	1.94	777	773.6	2.49	776	765.8	6.84
		2op	775	770.53	1.8	777	773.17	1.78	776	771.5	1.98	774	765.23	5.85

Table A.2633: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	911.4	4.95	921	915.27	2.53	921	915.83	2.48	916	898.67	5.92
		2op	916	909.4	4.81	919	915.87	1.87	917	914.6	1.75	910	899.67	4.89
	50	rnd	919	913.27	3.32	921	916.8	1.63	921	917.1	1.69	916	904.17	5.32
51	20	2op	918	912.2	4.04	921	917.43	1.43	919	916.9	1.16	911	903.67	2.97
		rnd	921	913.83	4.36	921	917.17	2.55	921	917.03	2.36	921	915.47	2.97
	50	2op	916	914.27	2.96	918	915.53	2	921	917	1.11	918	915.9	1.03
	20	rnd	921	914.33	3.59	921	917.03	2.04	921	917.17	2.09	921	915.4	2.9
		2op	917	914.3	2.63	921	916.63	2.09	921	917.67	1.42	918	915.73	1.68
	50	rnd	921	914.33	3.59	921	917.03	2.04	921	917.17	2.09	921	915.4	2.9

Table A.2634: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.5	3.28	921	916.5	3.04	921	916.1	2.8	919	914.1	3.73
		2op	919	913.43	3.8	921	917.73	2.03	921	917.17	2.31	919	913.7	3
	50	rnd	921	915.3	2.9	921	917.8	2.35	921	918.4	2.06	921	914.17	3.22
51	20	2op	921	914.9	2.63	921	918	2.02	921	918.97	2.13	921	915.2	3.71
		rnd	919	914.1	3.6	921	915.8	2.44	921	917.57	2.21	921	916.23	3.11
	50	2op	917	914.57	2.13	919	916.27	2.03	921	917.53	1.68	921	916.23	1.43
	20	rnd	919	914.1	3.2	921	916.23	2.37	921	917.23	2.14	921	915.03	3.42
		2op	917	915.13	1.81	921	918.6	2.09	921	919.17	1.72	921	916.87	1.5
	50	rnd	919	914.1	3.2	921	916.23	2.37	921	917.23	2.14	921	915.03	3.42

Table A.2635: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	911.27	5.11	921	916.07	2.48	919	915	2.84	914	897.2	7.35
		2op	916	910.63	3.68	921	915.77	1.98	921	915.3	2.41	911	897.47	6.06
	50	rnd	919	911.93	3.9	921	916.87	2.32	919	916.73	2.18	914	902.97	4.87
51	20	2op	917	911.97	4.25	919	916.23	1.55	921	917.47	1.98	911	902.27	5.02
		rnd	919	913.77	3.68	921	915.77	2.78	921	917.03	1.73	921	916.43	3.06
	50	2op	916	913.3	3.29	919	915.57	1.81	921	916.9	1.16	917	915.23	1.45
	20	rnd	918	912.37	3.62	921	916.43	2.31	919	917.5	1.33	921	915.5	3.24
		2op	918	914.03	2.93	921	917.43	1.65	921	917.47	1.94	918	915.57	1.74
	50	rnd	918	912.37	3.62	921	916.43	2.31	919	917.5	1.33	921	915.5	3.24

Table A.2636: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.17	3.74	921	917.33	1.99	921	916.53	2.54	919	913.87	3.53
		2op	919	914.23	2.27	921	918.13	1.94	921	917	2.07	921	914.23	4.22
	50	rnd	921	914	3.26	921	916.93	2.08	921	917.7	2.07	921	915.63	3.49
51	20	2op	921	915.53	2.85	921	918.43	1.87	921	918.33	2.6	921	915.47	3.22
		rnd	919	914.4	2.25	919	915.73	2.02	921	916.3	2.41	921	916.33	3.27
	50	2op	917	914.9	2.11	921	916.5	2.1	921	918.13	2.19	921	916.67	1.71
	20	rnd	921	915.03	3.05	921	916.87	2	921	918.1	1.6	921	915.7	2.77
		2op	919	914.57	2.43	921	918.3	1.73	921	918.6	1.81	921	916.83	1.74
	50	rnd	921	915.03	3.05	921	916.87	2	921	918.1	1.6	921	915.7	2.77

Table A.2637: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	913.37	3.45	921	916.17	2.1	918	903.37	7.55	888	858.83	13.16
		2op	916	915.17	1.9	919	916.2	1.47	916	903.7	6.67	883	855.17	11.08
	50	rnd	918	914.57	2.75	921	916.17	2.18	914	903.93	5.53	889	859.47	14.16
51	20	2op	917	915.37	1.61	921	916.33	1.37	916	905.3	6.12	889	858.43	14.19
		rnd	921	915.2	2.89	921	916.53	2.61	921	914.97	3.42	918	904.63	6.27
	50	2op	916	916	0	918	916.17	0.46	919	915.6	1.65	916	904.43	5.64
	20	rnd	921	916.27	2.43	921	917.1	3.07	919	912.17	3.12	913	899	8.88
		2op	916	916	0	921	916.67	1.4	917	913.3	2.78	912	898.07	13.21
	50	rnd	921	916.27	2.43	921	917.1	3.07	919	912.17	3.12	913	899	8.88

Table A.2638: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	913.97	3.22	921	916.93	2.42	917	908.57	6.62	914	872.17	19.03
		2op	918	915.27	1.84	921	917.43	1.77	918	907.57	9.99	913	877.6	17.9
	50	rnd	919	915.5	2.66	921	918.1	1.84	919	913.9	3.13	917	895.97	16.2
51	20	2op	918	914.73	2.36	921	917.53	1.74	919	913.57	4.32	914	889.23	14.46
		rnd	921	915.7	2.41	921	917.13	2.49	921	915.7	3.19	918	906.6	11.16
	50	2op	916	915.83	0.91	921	916.73	1.55	917	915.8	1.3	921	908.47	9.71
	20	rnd	921	916.3	3.31	921	916.2	3.12	921	915.5	3	921	911.93	5.98
		2op	916	915.97	0.18	921	916.33	1.09	919	915.4	2.04	919	910.47	4.53
	50	rnd	921	916.3	3.31	921	916.2	3.12	921	915.5	3	921	911.93	5.98

Table A.2639: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1535.03	11.26	1539	1516.3	12	1536	1467.77	23.2	1408	1343.63	29.25
		2op	1552	1533.43	12.81	1553	1523.63	11.87	1520	1469.83	17.7	1409	1342.9	37.53
	50	rnd	1560	1536.97	15.3	1541	1522.73	8.75	1528	1492.97	19.15	1468	1387.4	29.54
51	20	2op	1558	1530.13	16.47	1548	1523.2	8.36	1549	1495.63	15.9	1440	1373.13	27.45
		rnd	1570	1543.67	14.28	1565	1542.47	13.05	1575	1541.4	13.25	1543	1504.3	19.34
	50	2op	1556	1543.63	9.8	1567	1547.23	12.19	1563	1543.3	9.85	1537	1507.77	17.28
	20	rnd	1569	1544.6	13.71	1561	1539.9	10.07	1567	1534.63	12.42	1517	1481.53	21.81
		2op	1562	1546.57	9.95	1562	1545.1	8.99	1556	1536.43	12.33	1531	1493.73	16.94

Table A.2640: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1577	1557.4	13.53	1572	1559.27	7.25	1566	1550.17	13.21	1535	1490.9	18.68
		2op	1575	1557.63	10.46	1576	1559.83	8.04	1567	1549.77	9.45	1528	1486.5	23.95
	50	rnd	1572	1558.77	8.82	1574	1560.4	6.69	1575	1558.63	10.1	1565	1521.9	19.89
51	20	2op	1572	1558.1	9.54	1572	1563.03	5.61	1575	1557.57	9.38	1556	1526.9	16.04
		rnd	1571	1558.77	11.04	1572	1559.93	8.07	1573	1559.8	10.46	1564	1540.27	14.38
	50	2op	1572	1556.43	8.44	1570	1560.87	6.75	1575	1560.03	7.27	1559	1544.93	9.03
	20	rnd	1569	1554.37	11.1	1578	1562.13	7.39	1577	1560.27	6.38	1573	1550.9	10.98
		2op	1568	1558.33	5.42	1573	1563.07	5.29	1570	1560.23	5.85	1571	1551.03	8.92

Table A.2641: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1561	1532.5	13.41	1534	1514.13	7.59	1526	1459.27	21.99	1433	1338.13	35.4
		2op	1554	1529.77	17.45	1548	1522.53	13.01	1514	1469	19.98	1429	1336.83	33.35
	50	rnd	1558	1530.8	15.96	1530	1519.77	7.2	1512	1483.2	15.73	1441	1372.93	31.77
51	20	2op	1557	1532.1	14.09	1552	1523.23	10.08	1526	1493.67	15.49	1439	1359.87	28.69
		rnd	1577	1547.9	12.77	1563	1535.87	12.47	1566	1541.53	13.03	1537	1496.8	19.28
	50	2op	1564	1546.13	13.96	1562	1542.93	10.66	1558	1538.1	12.5	1540	1497.83	18.08
	20	rnd	1572	1545.13	12.48	1562	1541.43	9.48	1559	1536.53	9.86	1555	1494.77	21.56
		2op	1562	1543.33	12.63	1566	1545.8	9.73	1569	1542.73	9.49	1545	1494.67	22.24

Table A.2642: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1572	1555.57	9.47	1573	1558.63	7.84	1568	1546.37	10.7	1537	1481.4	26.9
		2op	1575	1555.7	15.28	1575	1559.33	7.63	1565	1546.1	10.49	1525	1487.4	23.03
	50	rnd	1575	1558.5	9.2	1576	1561.17	7.53	1581	1557.07	11.8	1566	1517.4	20.33
51	20	2op	1574	1560.3	7.66	1581	1562.73	8.43	1575	1555.27	14.35	1541	1510.9	17.55
		rnd	1577	1558.8	9.85	1580	1559.23	8.71	1574	1557.77	9.98	1561	1543.8	12.84
	50	2op	1567	1557.43	7.81	1574	1560.67	6.55	1569	1559.67	5.73	1562	1545.1	9.52
	20	rnd	1576	1560.13	9.98	1579	1561.63	8.46	1579	1560.53	8.27	1571	1548.8	13.57
		2op	1569	1558.6	6.37	1579	1561.73	7.97	1577	1563.2	7.59	1569	1549.87	9.82

Table A.2643: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1546.97	12.18	1571	1539.27	15.09	1543	1467.53	34.57	1286	1218.4	41.25
		2op	1565	1549.33	8.31	1560	1540.17	11.69	1533	1480.7	32.14	1364	1207.8	56.69
	50	rnd	1562	1542.03	13	1568	1531.17	15.77	1528	1469.8	39.68	1397	1275.9	65.17
51	20	2op	1560	1546.6	9.42	1557	1531.37	12.76	1524	1466.43	39.23	1369	1268.47	49.05
		rnd	1574	1558.6	11.42	1573	1558.57	8.79	1567	1531.9	19.27	1483	1416.63	33.15
	50	2op	1568	1557.13	3.95	1572	1558.03	4.73	1565	1540.77	17.2	1524	1438.67	37.85
	20	rnd	1574	1560.3	7.56	1572	1558.13	7.89	1568	1506.67	18.33	1499	1444.43	32.32
		2op	1566	1557.77	4.17	1573	1558.6	6.43	1563	1508.83	26.91	1497	1436.6	37.09

Table A.2644: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1580	1559.13	9.09	1575	1557.77	8.91	1569	1517.8	28.96	1448	1353.23	66.65
		2op	1568	1558.93	5.03	1573	1561.5	6.99	1555	1509.27	33.05	1444	1364.6	47.65
	50	rnd	1574	1560.03	8.24	1572	1557.63	7.49	1572	1533.07	22.25	1498	1432.17	39.7
51	20	2op	1571	1560.1	5.91	1570	1559.17	6.02	1566	1531.83	24.9	1551	1452.3	51.9
		rnd	1578	1559.47	8.23	1576	1561	6.72	1575	1547.23	16.58	1551	1492.57	37.51
	50	2op	1564	1557	2.82	1571	1567.2	3.36	1571	1548.17	11.39	1536	1477.23	30.96
	20	rnd	1572	1559.27	7.11	1573	1559.23	7.2	1576	1549.83	13	1569	1522.77	23.79
		2op	1568	1559.6	4.45	1570	1559.73	5.26	1566	1545.43	17.95	1568	1520.77	32.45

Table A.2645: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1562	1520.13	20.1	1536	1515.1	12.35	1511	1462.37	26.8	1405	1326.07	28.38
		2op	1557	1515.17	20.64	1538	1514.67	10.5	1526	1462.17	28	1411	1343.43	23.59
	50	rnd	1545	1519.73	18.2	1550	1523.9	10.41	1536	1487	21.77	1445	1364.93	33.8
51	20	rnd	1542	1513.93	19.39	1542	1519.67	11.03	1520	1480	18.3	1436	1366.8	31.76
		2op	1556	1533.3	16.45	1569	1541.4	11.99	1566	1540.63	11.87	1548	1500.5	21.9
	50	rnd	1556	1528.93	14.55	1558	1538.2	10.63	1550	1531.03	9.38	1530	1493.43	21.15
	20	rnd	1559	1534.9	16.02	1560	1537.43	9.68	1552	1537.63	11.39	1550	1486.1	24.45
		2op	1555	1527.17	16.68	1556	1532.4	10.8	1553	1537.4	10.14	1550	1479	28.64
	50	rnd	1555	1527.17	16.68	1556	1532.4	10.8	1553	1537.4	10.14	1550	1479	28.64

Table A.2646: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1552.1	13.09	1568	1555.87	7.62	1566	1543.77	15.95	1538	1481	27.69
		2op	1567	1550.03	10.18	1563	1554.33	6.09	1562	1541.13	12.51	1526	1484.07	26.79
	50	rnd	1571	1551.37	10.18	1570	1556.23	7.26	1567	1554.47	8.53	1556	1521.03	15.73
51	20	rnd	1569	1547	14	1573	1555.73	7.27	1567	1552.8	8.08	1566	1511.9	22.34
		2op	1567	1553.97	11.09	1571	1555.57	9.44	1570	1556.37	10.26	1563	1540.93	12.66
	50	rnd	1565	1544.07	17.81	1573	1556.07	8.46	1567	1555.87	8.45	1564	1535.2	16.76
	20	rnd	1570	1551.87	7.58	1567	1555.5	7.69	1568	1559.1	6.13	1567	1542.2	14.21
		2op	1568	1551.97	10.36	1564	1553.63	8.2	1570	1556.6	7.73	1564	1540	14.49
	50	rnd	1568	1551.97	10.36	1564	1553.63	8.2	1570	1556.6	7.73	1564	1540	14.49

Table A.2647: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1551	1519.8	16.66	1545	1515.87	15.41	1504	1454.6	25.11	1398	1326.6	27.02
		2op	1548	1510.7	25.5	1541	1514.9	13.04	1497	1446.57	31.08	1387	1321.63	29.2
	50	rnd	1550	1517	18.43	1558	1523.03	12.16	1542	1483.23	19.92	1430	1345.47	34.49
51	20	rnd	1549	1510.83	18.15	1565	1517.7	15.53	1501	1478.63	14.12	1436	1354.37	33.89
		2op	1555	1534.73	8.65	1554	1537.6	10.77	1563	1540.37	14.23	1532	1497.4	18.48
	50	rnd	1556	1524.8	16.35	1565	1531.3	11.35	1565	1531.67	14.63	1529	1494.53	16.95
	20	rnd	1561	1534.7	16.87	1557	1536.13	10.68	1561	1537.3	12.53	1526	1482.33	27
		2op	1552	1525.13	12.99	1551	1532.9	11.4	1562	1536.33	10.6	1519	1478.57	26.14
	50	rnd	1552	1525.13	12.99	1551	1532.9	11.4	1562	1536.33	10.6	1519	1478.57	26.14

Table A.2648: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1547.87	15	1568	1554.83	10.75	1564	1544.07	14.89	1542	1479.33	26.63
		2op	1572	1548.83	16.11	1570	1554.93	8.77	1559	1542.03	12.54	1534	1469.73	35.16
	50	rnd	1569	1554.87	10.58	1570	1555.47	7.5	1566	1551.73	8.63	1555	1503.53	24.9
51	20	2op	1566	1548.57	15.89	1567	1555.7	7.03	1565	1551.63	10.18	1561	1508.3	21.23
		rnd	1565	1550.2	9.21	1568	1550.47	9.98	1569	1553.77	8.99	1563	1539.8	12.97
	50	2op	1565	1549	12.48	1571	1553.43	10.42	1569	1554.7	7.83	1566	1532.9	14.69
	20	rnd	1565	1554.47	8.54	1568	1555.27	9.31	1568	1558.47	6.52	1565	1547.13	14.22
		2op	1566	1551.53	10.8	1567	1556.97	7.83	1567	1557.17	6.52	1568	1540.17	15.54

Table A.2649: f_{50_412} : transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1557	1538.5	11.76	1559	1533.77	14.18	1530	1471.03	38.05	1335	1192.67	54.93
		2op	1552	1524.07	12.68	1545	1517.67	11.61	1513	1462.83	35.41	1306	1191.3	47.29
	50	rnd	1560	1536.87	12.65	1554	1531.03	14.26	1511	1471.27	31.82	1384	1271.67	55.67
51	20	2op	1552	1530.37	10.86	1551	1519.97	13.29	1523	1460.97	37.23	1358	1264.6	58.03
		rnd	1567	1552.03	10.88	1566	1552.83	8.56	1569	1533.97	20.69	1501	1425.9	41.92
	50	2op	1556	1539.87	7.64	1556	1542.1	7.13	1555	1520.7	17.81	1492	1421.4	38.36
	20	rnd	1565	1548.67	9.48	1560	1548.43	7.78	1550	1506.27	24.41	1515	1446.83	32.35
		2op	1556	1543.83	9.41	1556	1539.97	8.47	1524	1489.57	24.68	1510	1446.13	35.55

Table A.2650: f_{50_412} : basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1552.63	10.16	1570	1556.37	6.87	1547	1502.5	29.74	1501	1363.67	67.16
		2op	1569	1549.93	12.14	1568	1552.37	9.55	1555	1510	29.56	1489	1357.3	78.28
	50	rnd	1570	1552.07	7.68	1568	1556.7	7.46	1560	1525.7	22.22	1536	1421.87	51.68
51	20	2op	1570	1553.53	9.57	1567	1554.47	8.42	1569	1527.87	23.78	1505	1420.23	50.79
		rnd	1572	1555.97	9.23	1570	1556.67	9.32	1564	1537.97	16.83	1551	1489.53	41.63
	50	2op	1564	1553.87	7.32	1565	1557.43	2.85	1564	1532.93	23.89	1532	1468.67	36.04
	20	rnd	1567	1555.37	8.73	1568	1553.1	11.44	1566	1545.7	14.64	1555	1523.13	22.67
		2op	1565	1556	7.46	1565	1554.03	6.77	1563	1542.3	13.94	1557	1513.6	25.48

Table A.2651: f_{50_412} : transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1542	1511.63	17.5	1533	1509.5	11.36	1496	1456.93	19.27	1396	1324.6	29.05
		2op	1546	1514.3	16.19	1536	1507.73	10.12	1487	1451.27	19.81	1394	1323.6	28.53
	50	rnd	1551	1515.87	13.42	1526	1509.87	8	1521	1482.97	17.11	1456	1360.8	38.8
51	20	rnd	1536	1509.93	15.87	1536	1513.4	10.05	1516	1478.97	15.63	1416	1355.23	23.53
		2op	1554	1528.1	16.73	1557	1533.57	14.84	1558	1533.87	12.29	1527	1492.37	19.43
	50	rnd	1557	1534.63	12.48	1549	1531.7	10.05	1553	1533.13	10.87	1522	1488.27	20.18
	20	rnd	1562	1535.53	14.1	1553	1530.93	11.84	1554	1530.27	10.78	1524	1477.77	23.09
		2op	1548	1530.77	12.16	1543	1527.4	7.62	1542	1527.13	8.23	1530	1480.87	20.15
	50	rnd												

Table A.2652: f_{50_498} : basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1565	1547.23	11.93	1567	1554.53	6.11	1568	1538.87	13.07	1525	1477.73	24.48
		2op	1563	1548.17	8.08	1565	1553.5	8.67	1549	1537.97	8.35	1543	1474.03	20.67
	50	rnd	1563	1549.33	8.32	1565	1551.93	6.59	1566	1549.13	8.55	1551	1511.1	20.81
51	20	rnd	1565	1550.93	9.18	1565	1551.13	9.85	1570	1551.73	8.62	1544	1507.47	18.76
		2op	1562	1550.27	8.17	1566	1551.1	10.22	1563	1550.37	10.27	1560	1536.37	11.45
	50	rnd	1565	1548.67	8.67	1563	1550.17	7.87	1561	1551.4	5.61	1561	1538.37	15.52
	20	rnd	1561	1549.27	8.51	1564	1550.53	7.16	1568	1552.9	7.62	1562	1541.83	12.39
		2op	1565	1549.8	6.53	1566	1554.4	6.4	1568	1552.17	9.04	1566	1540.73	15.56
	50	rnd												

Table A.2653: f_{50_498} : transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1532	1508.07	14.04	1519	1502.27	10.2	1498	1455	24.14	1391	1325.37	28.22
		2op	1548	1509.57	17.56	1531	1504.83	9.57	1494	1448.5	16.99	1385	1314.03	27.13
	50	rnd	1540	1510.87	19.1	1526	1509.5	7.2	1501	1473.63	13.17	1439	1350.97	35.79
51	20	rnd	1544	1510.07	15.1	1532	1509.37	8.02	1507	1473.77	18.64	1411	1357.47	29.97
		2op	1558	1534.43	13.68	1560	1531.07	16.38	1564	1531.4	16.18	1515	1481.13	18.75
	50	rnd	1548	1528.1	15.49	1548	1529.5	12.33	1548	1530.83	9.26	1513	1486.97	17.58
	20	rnd	1559	1526.33	15.94	1556	1530.07	12.76	1557	1526.43	12.13	1509	1475.3	20.66
		2op	1548	1529.83	16.41	1548	1530.07	12.72	1548	1528.1	11.11	1544	1476.53	25.75
	50	rnd												

Table A.2654: f_{50_498} : basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1549.1	12	1564	1549.93	9.01	1563	1540.6	10.67	1542	1468.63	28.02
		2op	1566	1548.2	7.75	1570	1553.13	8.56	1559	1541.3	10.6	1508	1477.1	19.96
	50	rnd	1565	1546.1	10.02	1565	1551.73	6.87	1560	1548.07	8.43	1550	1500.87	26.73
51	20	2op	1566	1551.93	8.17	1564	1550.4	9.26	1558	1548.03	7.83	1526	1498	17.49
		rnd	1562	1547.03	13.03	1565	1551.67	8.03	1565	1545.53	10.16	1561	1530.1	14.79
	50	2op	1559	1547.57	7.64	1564	1549.33	6.64	1566	1549.33	6.43	1555	1535.53	14.22
	50	rnd	1563	1550.43	7.38	1568	1551.67	8.51	1565	1552.57	9.93	1558	1539.63	12.66
		2op	1560	1547.93	9.08	1564	1550.67	7.52	1565	1552.3	5.81	1560	1543.83	9.32

Table A.2655: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1536.9	15.23	1560	1532.8	16.62	1517	1470.37	34.79	1309	1191.07	40.93
		2op	1548	1536.1	12.68	1548	1528.93	15.58	1545	1475.43	28.41	1286	1200.03	44.88
	50	rnd	1560	1528.93	15.32	1552	1522.7	13.97	1522	1464.5	24.91	1349	1255.93	54.23
51	20	2op	1548	1531.2	9.65	1540	1520.23	12.1	1523	1467.8	29.1	1354	1264.53	45.39
		rnd	1561	1548.5	6.3	1567	1549.33	11.5	1566	1527.8	25.07	1508	1426.13	39
	50	2op	1548	1548	0	1549	1547.73	1.66	1560	1529.33	16.6	1490	1405.4	42.23
	50	rnd	1564	1549.57	8.03	1560	1545.37	10.99	1553	1509.5	25.57	1502	1433.03	38.45
		2op	1549	1546.47	3.95	1549	1547	2.64	1542	1501.13	21.88	1522	1444.47	34.87

Table A.2656: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1553.43	8.73	1565	1550.73	9.56	1546	1500.1	28.95	1443	1357.87	49.7
		2op	1564	1550.17	5.8	1559	1549.77	6	1543	1499.2	27.09	1482	1373.17	67.74
	50	rnd	1567	1548.4	7.33	1564	1552.9	6.78	1559	1523.67	21.44	1533	1425.13	44.71
51	20	2op	1561	1551.83	4.86	1561	1552.9	5.02	1556	1530.87	19.99	1507	1436.6	49.35
		rnd	1565	1550.87	7.98	1563	1553.57	7.88	1564	1540.4	14.64	1541	1476	35.73
	50	2op	1550	1548.07	0.37	1566	1549.93	3.58	1557	1540.8	12.09	1537	1483.57	36.39
	50	rnd	1567	1548.97	8	1570	1552.77	8.32	1565	1541.93	14.84	1557	1519.03	18.75
		2op	1553	1548.53	1.68	1561	1549.23	3.24	1559	1543.3	11.56	1548	1497.57	29.73

Table A.2657: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2655	2591.73	30.02	2623	2556	31.28	2521	2415.73	43.94	2201	2055.37	67.62
		2op	2643	2608.8	22.68	2631	2564	33.48	2496	2406.93	57.13	2162	2051.53	70.74
	50	rnd	2688	2626.3	30.03	2666	2570.87	27.9	2554	2493.8	41.76	2328	2179.33	77.75
51	20	rnd	2681	2623.7	24.1	2645	2574.07	25.9	2524	2473.87	37.72	2304	2154.97	76.6
		2op	2716	2629.67	35.89	2686	2630.83	23.84	2646	2586.23	35.25	2540	2411.97	46.91
	50	rnd	2727	2651.7	28.87	2703	2631.43	29.1	2667	2597.2	33.52	2534	2430.7	51.04
	20	rnd	2727	2657.67	25.09	2699	2628.03	24.79	2636	2589.67	32.29	2557	2467.4	55.96
		2op	2715	2666.9	24.1	2683	2627.23	24.93	2658	2609.33	26.67	2571	2453.17	67.68

Table A.2658: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2765	2730.93	21.24	2771	2718	23.18	2710	2632.63	46.65	2573	2444.33	65.67
		2op	2771	2730.23	23.23	2778	2728.97	24.65	2721	2648.7	32.42	2559	2434.43	64.38
	50	rnd	2759	2731.73	14.96	2758	2732.67	15.99	2723	2684.67	22.64	2649	2536.8	69.93
51	20	rnd	2760	2739.57	12.88	2765	2737.7	17.12	2750	2698.03	30.47	2622	2519.73	66.82
		2op	2768	2734.87	17.53	2762	2737.57	14.34	2766	2710.77	26.12	2692	2615	50.91
	50	rnd	2777	2743.17	21.81	2763	2743.43	16.22	2764	2723.9	26.45	2672	2610.37	50.79
	20	rnd	2766	2743.1	15.3	2764	2742.27	15.32	2763	2723.93	16.56	2704	2652.43	34.25
		2op	2778	2749.6	17.67	2776	2751.13	14.6	2766	2734.3	24.56	2723	2647.8	45.33

Table A.2659: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2658	2599.7	26.37	2605	2542.8	33.52	2500	2406.87	65.88	2279	2035.47	90.41
		2op	2699	2610.67	29.48	2616	2542.67	30.91	2537	2413.53	69.73	2095	2022.6	49.82
	50	rnd	2663	2614.43	29.93	2608	2565.3	22.34	2522	2459.5	38.93	2288	2105.67	91.39
51	20	rnd	2668	2623.87	22.62	2626	2568.83	21.68	2550	2463.1	56.3	2269	2145.03	62.73
		2op	2693	2642.03	28.03	2674	2626.5	20.17	2667	2586.87	37.78	2570	2423.87	52.28
	50	rnd	2710	2651.57	30.12	2708	2639.23	31.59	2661	2582.63	37.3	2508	2415.5	42.22
	20	rnd	2718	2660.97	27.88	2667	2616.5	18.22	2693	2595.63	33.04	2556	2447.13	49.21
		2op	2711	2674.9	24.39	2677	2630.4	20.08	2669	2601.4	34.46	2544	2450.03	57.86

Table A.2660: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2769	2730.37	21.49	2759	2707.8	27.46	2740	2651.3	37.75	2527	2413.5	59.26
		2op	2779	2741.37	18.9	2774	2719.1	31.46	2701	2636.9	31.77	2578	2445.53	70.75
	50	rnd	2773	2740.57	15.44	2756	2728.4	17.81	2717	2666.93	26.84	2673	2516.67	74.34
51	20	rnd	2764	2731.17	19.79	2771	2732.93	18.12	2754	2710.43	22.99	2674	2594.3	51.55
		2op	2775	2750.57	12.96	2775	2747.9	13.43	2765	2716.77	25.12	2743	2615.63	54
	50	rnd	2773	2740.03	12.49	2770	2741.7	15.63	2752	2728.63	13.72	2756	2651	48.78
		2op	2770	2751.37	14.09	2770	2752.1	10	2760	2729.37	21.02	2755	2647	53.9

Table A.2661: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2726	2640.17	34.28	2691	2613.47	40.99	2607	2470.1	49.4	2138	1932.5	95.6
		2op	2711	2653.8	29.01	2696	2617.27	40.03	2564	2468.9	53.08	2023	1893.07	76.2
	50	rnd	2695	2646	23.64	2698	2617.03	29.46	2548	2462.43	55.92	2211	2026.07	85.39
51	20	rnd	2701	2655.27	23.05	2673	2617.1	22.49	2568	2482.63	49.13	2210	2028.37	101.03
		2op	2762	2728.63	19.62	2763	2726.17	17.43	2716	2666.67	30.3	2433	2304.07	81.03
	50	rnd	2762	2752.67	10.63	2771	2752.77	12.64	2749	2675.2	48.42	2455	2329.2	61.21
		2op	2742	2705.27	20.2	2730	2686.73	18.13	2662	2609.73	28.68	2509	2399.43	48.49
			2759	2726.93	20.27	2753	2703.33	29.92	2706	2620.63	42.62	2518	2410.8	59.25

Table A.2662: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2766	2740.17	16.19	2771	2733.2	19.61	2695	2604.83	49.63	2426	2300.23	87.35
		2op	2778	2749.53	12.46	2776	2740.57	18.19	2696	2614.03	53	2467	2333.43	79.65
	50	rnd	2763	2741.03	13.34	2766	2736.37	15.35	2716	2661.9	31.5	2562	2464.43	56.91
51	20	rnd	2774	2751.07	11.35	2770	2748.5	16.26	2760	2671.1	50.87	2664	2460.2	80.56
		2op	2769	2743.9	12.72	2763	2744.53	11.02	2758	2695.93	38.78	2677	2548.13	67.65
	50	rnd	2775	2761.83	7.29	2770	2760.27	8.31	2755	2717.9	24.87	2644	2552.6	45.19
		2op	2769	2748.4	12.43	2763	2736.53	16.41	2750	2704.6	29.47	2696	2603	58.17
			2776	2762.4	6.84	2772	2752.93	14.39	2764	2718.77	29.92	2737	2630.3	57.37

Table A.2663: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2716	2668.63	28.95	2686	2625.47	33.11	2587	2476.37	61.14	2199	2065.93	56.28
		2op	2720	2673.13	25.76	2685	2618.37	34.68	2604	2472.37	68.44	2185	2056.6	65.75
	50	rnd	2728	2686.93	23.56	2711	2643	24.52	2664	2552.53	43.65	2325	2182.73	73.87
51	20	rnd	2729	2688.8	21.68	2688	2637.7	21.23	2609	2532.33	54.77	2344	2190.17	67.57
		2op	2768	2708.83	29.54	2738	2693.07	23.98	2749	2652.73	48.07	2601	2474.6	63.97
	50	rnd	2744	2706.77	22.83	2737	2693.77	20.89	2720	2659.2	30.93	2574	2453.43	56.2
	20	rnd	2763	2718.13	21.57	2737	2693.8	21.89	2752	2666.2	37.25	2606	2515.17	63.59
		2op	2766	2721.6	24.48	2732	2690	18.68	2699	2650.77	28.07	2627	2502.37	50.53

Table A.2664: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2793.57	25.06	2833	2783.43	23.93	2780	2705.9	46.48	2596	2469.27	56.62
		2op	2842	2795.7	22.71	2830	2782.27	28.18	2777	2693.73	42.09	2636	2498.13	67.64
	50	rnd	2837	2805.1	23.93	2829	2805.33	16.3	2811	2761.3	26.31	2701	2604.1	69.12
51	20	rnd	2827	2806.53	17.28	2835	2804.03	14.23	2802	2739.33	35.47	2709	2602.3	68.51
		2op	2828	2800.67	17.69	2831	2807.27	19.6	2831	2776.3	30.47	2749	2658.2	58.95
	50	rnd	2838	2792.6	23.76	2820	2799.83	15.02	2830	2774.33	25.27	2800	2668.53	54.38
	20	rnd	2833	2807.3	14.74	2840	2810.63	17.11	2832	2799.4	15.87	2821	2720.67	58.63
		2op	2830	2803.77	15.78	2842	2807.87	17.64	2844	2797	17.81	2784	2716.23	32.96

Table A.2665: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2727	2662.07	27.37	2683	2620.2	37.32	2580	2473.7	57.26	2195	2045.5	71.21
		2op	2748	2662.6	32.08	2673	2611.67	31.7	2609	2459.27	64.68	2216	2075.07	73.56
	50	rnd	2727	2687.2	21.92	2680	2631.97	24.35	2608	2504.9	67.01	2348	2183.83	92.23
51	20	rnd	2712	2672.3	20.48	2675	2636.13	19.08	2612	2536.17	56.4	2273	2148.3	69.48
		2op	2779	2714	25.61	2756	2697.97	25.67	2726	2646.63	47.5	2546	2451.03	55.32
	50	rnd	2743	2694.47	22.59	2725	2685.6	21.82	2702	2636	42.4	2571	2465.93	59.69
	20	rnd	2768	2721.3	28.36	2736	2684.17	22.74	2684	2650.4	24.97	2654	2519	61.67
		2op	2751	2713.07	21.84	2718	2688.4	16.63	2715	2643.37	40.08	2609	2521.5	56.13

Table A.2666: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2836	2803.43	18.7	2829	2777.37	24.37	2780	2700.83	43.15	2609	2458.43	64.48
		2op	2836	2803.87	19.24	2823	2787.23	21.1	2758	2675.17	35.32	2625	2479.47	69.45
	50	rnd	2838	2807.27	20.84	2834	2806.1	14.24	2798	2749.17	29.29	2671	2576.03	50.47
51	20	rnd	2837	2805.37	18.24	2837	2798.8	20.08	2818	2745.13	36.09	2710	2547.97	73.97
		2op	2837	2805.37	18.24	2837	2798.8	20.08	2818	2745.13	36.09	2710	2547.97	73.97
	50	rnd	2837	2807.4	19.22	2848	2809.9	22.06	2825	2777.27	22.09	2792	2680	49.24
	20	rnd	2833	2792.07	26.91	2829	2804.87	16.52	2823	2771.13	26.29	2776	2670.43	50.62
		2op	2833	2792.07	26.91	2829	2804.87	16.52	2823	2771.13	26.29	2776	2670.43	50.62
	50	rnd	2839	2802.9	21.85	2838	2808.23	20.08	2834	2797.93	17.92	2794	2705.3	41.07
	20	rnd	2843	2808.53	14.85	2841	2812.47	16.44	2836	2798.87	21.15	2787	2718.3	40.47
		2op	2843	2808.53	14.85	2841	2812.47	16.44	2836	2798.87	21.15	2787	2718.3	40.47
	50	rnd	2839	2802.9	21.85	2838	2808.23	20.08	2834	2797.93	17.92	2794	2705.3	41.07
	20	2op	2843	2808.53	14.85	2841	2812.47	16.44	2836	2798.87	21.15	2787	2718.3	40.47

Table A.2667: f_{100_415} : transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2768	2704.43	31.7	2769	2687.87	30.5	2629	2539.3	54.07	2090	1948.7	67.94
		2op	2760	2702.47	25.5	2733	2678.3	27.85	2588	2488.13	68.16	2154	1918.53	91.16
	50	rnd	2748	2714.07	21.5	2740	2675.07	23.7	2623	2529.6	61.13	2210	2061.43	79.96
51	20	rnd	2753	2704.87	25.97	2720	2672.1	24.98	2601	2542.17	39.81	2314	2060.17	83.43
		2op	2753	2704.87	25.97	2720	2672.1	24.98	2601	2542.17	39.81	2314	2060.17	83.43
	50	rnd	2834	2799.4	20.32	2842	2800.17	19.78	2799	2721.27	47.14	2461	2358.9	73.48
	20	rnd	2812	2795.8	13.63	2813	2796.17	14.78	2793	2710.83	41.81	2484	2365.77	61.4
		2op	2812	2795.8	13.63	2813	2796.17	14.78	2793	2710.83	41.81	2484	2365.77	61.4
	50	rnd	2814	2775.33	24.72	2822	2758.07	25.78	2764	2684.07	38.62	2584	2436.03	65.65
	20	rnd	2802	2767.7	22.87	2798	2764.53	22.66	2755	2663.67	35.51	2539	2436.57	50.82
		2op	2802	2767.7	22.87	2798	2764.53	22.66	2755	2663.67	35.51	2539	2436.57	50.82
	50	rnd	2814	2775.33	24.72	2822	2758.07	25.78	2764	2684.07	38.62	2584	2436.03	65.65
	20	2op	2802	2767.7	22.87	2798	2764.53	22.66	2755	2663.67	35.51	2539	2436.57	50.82

Table A.2668: f_{100_415} : basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2838	2809.83	15.12	2835	2795.43	25.88	2785	2691.43	55.97	2541	2332.3	85.77
		2op	2841	2809.5	15.61	2834	2794.03	18.84	2773	2683.57	57.54	2495	2387.37	73.22
	50	rnd	2841	2813.9	13.89	2842	2808.9	20.89	2781	2719.6	43.02	2643	2516.17	72.85
51	20	rnd	2833	2811.8	11.56	2838	2812.37	14.58	2785	2717.23	44.69	2628	2509.4	77.02
		2op	2833	2811.8	11.56	2838	2812.37	14.58	2785	2717.23	44.69	2628	2509.4	77.02
	50	rnd	2829	2812.63	13.45	2838	2813.6	17.52	2816	2763.7	38.91	2714	2606.8	64.31
	20	rnd	2830	2805.83	8.25	2830	2804.73	8.87	2815	2761.97	33.53	2719	2614.57	52.34
		2op	2830	2805.83	8.25	2830	2804.73	8.87	2815	2761.97	33.53	2719	2614.57	52.34
	50	rnd	2842	2817.4	13.87	2838	2813.27	14.27	2818	2771.67	35.18	2781	2658.77	65.03
	20	rnd	2845	2813.93	11	2838	2809.53	15.21	2810	2770.7	29.84	2747	2673.97	53.68
		2op	2845	2813.93	11	2838	2809.53	15.21	2810	2770.7	29.84	2747	2673.97	53.68
	50	rnd	2842	2817.4	13.87	2838	2813.27	14.27	2818	2771.67	35.18	2781	2658.77	65.03
	20	2op	2845	2813.93	11	2838	2809.53	15.21	2810	2770.7	29.84	2747	2673.97	53.68

Table A.2669: f_{100_415} : transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2579	2545.6	24.54	2574	2497.4	30.42	2498	2358.47	50.32	2167	2000.53	75.91
		2op	2604	2556.93	26.42	2578	2516.87	37.77	2456	2362.93	58.66	2120	1996.93	56.99
	50	rnd	2593	2558.57	22.64	2548	2509.47	18.17	2489	2421.13	32.72	2295	2132.33	77.9
51	20	2op	2616	2565.13	26.82	2565	2517	19.12	2495	2420.33	46.29	2270	2110.23	72.97
		rnd	2655	2584.57	28.35	2621	2570.1	24.96	2596	2534.43	38.49	2450	2361.7	45.2
	50	2op	2646	2582.1	31.87	2654	2582.5	24.2	2600	2527.67	41.94	2515	2361.43	49.58
	20	rnd	2643	2595.23	22.9	2622	2563.23	21.8	2583	2527.67	33.79	2475	2390.9	67.07
		2op	2654	2605.43	24.57	2617	2568.6	19.63	2635	2533.93	37.15	2542	2396.43	58.05

Table A.2670: f_{100_512} : basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2670.23	20.55	2714	2662.5	28.07	2641	2577.7	30.85	2506	2371.77	67.41
		2op	2708	2675.93	25.18	2712	2662.9	19.43	2665	2581.37	41.36	2558	2389.43	66.58
	50	rnd	2708	2678.13	18.25	2706	2674.93	20.95	2667	2623.83	24.45	2601	2462.8	66.56
51	20	2op	2708	2685.9	12.73	2699	2678.93	13.69	2698	2635.2	30.59	2606	2499.07	48.56
		rnd	2706	2675.83	16.53	2700	2678.8	14.84	2701	2652.43	27.43	2665	2551.23	47.29
	50	2op	2707	2684.97	16.85	2710	2680.7	18.75	2716	2664.2	24.13	2672	2575.97	50
	20	rnd	2711	2688.77	12.93	2714	2686.1	13.44	2700	2672.9	17.43	2642	2587.27	41.98
		2op	2713	2688.47	13.14	2710	2694.5	9.75	2704	2683.77	12.57	2666	2597.4	43.35

Table A.2671: f_{100_512} : transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2592	2537.6	29.25	2585	2492.5	39.92	2461	2336.93	60.81	2130	1990.47	63.53
		2op	2586	2538.4	28.52	2536	2495.4	29.41	2445	2347.23	73.27	2206	2013.13	70.47
	50	rnd	2604	2558.97	25.32	2554	2513.4	21.73	2519	2420.9	47.52	2289	2084.7	83.5
51	20	2op	2593	2564.13	21.21	2566	2512.87	24.89	2513	2427.53	46.85	2297	2093.3	87.51
		rnd	2643	2580.1	31.23	2612	2570.8	22.59	2595	2524.83	38.38	2482	2350.8	55.89
	50	2op	2637	2596.8	27.23	2647	2584.37	26.26	2616	2527	39.04	2465	2368.4	44.83
	20	rnd	2647	2602.93	21.18	2624	2563.07	22.91	2578	2525.3	26.96	2492	2401.53	52.44
		2op	2656	2605.97	21.48	2621	2566.77	20.32	2598	2533.17	34.91	2489	2409.97	44.57

Table A.2672: f_{100_512} : basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2701	2676.4	17.97	2706	2662	23.74	2659	2587.6	38.26	2496	2387.97	59.24
		2op	2708	2674.17	19.34	2693	2658.9	22.74	2644	2570.07	38.34	2477	2381.87	57.33
	50	rnd	2700	2678.8	16.27	2704	2679.47	16.5	2677	2617.13	31.86	2559	2457.7	54.94
51	20	2op	2709	2687.4	16.17	2703	2676.27	16.26	2692	2627.13	37.58	2610	2463.9	70.6
		rnd	2709	2676	18.29	2699	2675.5	16.94	2691	2650.4	27.01	2631	2548.5	49.98
	50	2op	2706	2677.27	20.52	2705	2680	18.15	2690	2660.77	19.49	2656	2551.53	49.39
		rnd	2708	2681.6	12.61	2712	2687.63	13.46	2699	2674.27	13.71	2672	2587.27	43.28
		2op	2704	2686.5	14.38	2708	2690	11.22	2702	2675.43	21.6	2647	2601.53	36.84

Table A.2673: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2629	2579.2	28.97	2658	2566.03	32.97	2524	2413.4	55.8	2086	1887.5	77.21
		2op	2658	2597.6	29.76	2663	2578.87	34.26	2491	2409.3	64.22	2012	1863.1	76.07
	50	rnd	2640	2587.67	29.12	2607	2543.9	35.85	2511	2419.57	52.7	2147	1983.63	90.34
51	20	2op	2641	2597.57	20.25	2593	2558.73	23.9	2487	2425.8	37.41	2106	1987.1	61.86
		rnd	2698	2667.13	16.06	2698	2666.6	19.14	2685	2609	28.97	2429	2298.17	56
	50	2op	2700	2681.13	13.38	2700	2679.57	12.7	2704	2624.17	39.39	2395	2257.7	76.34
		rnd	2687	2648.47	17.74	2691	2643.23	25	2615	2553.77	33.75	2457	2345.73	51.9
		2op	2682	2652.67	17.03	2686	2653.5	14.48	2631	2562.17	40.75	2509	2345.97	58.11

Table A.2674: f_{100_512} : basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2707	2685.77	12.95	2709	2679.77	17.86	2662	2567.77	46.66	2433	2304.3	75.05
		2op	2715	2690.9	14.99	2703	2683.6	17.95	2642	2579.37	35.22	2428	2264.4	91.99
	50	rnd	2711	2687.77	13.85	2706	2681.63	18.79	2670	2605	42.31	2549	2404.63	71.43
51	20	2op	2708	2689.8	9.45	2705	2686.97	10.56	2693	2612	37.33	2559	2401.93	68.91
		rnd	2706	2684.47	14.46	2705	2686.53	11.99	2701	2646.63	30.57	2643	2511.27	51.93
	50	2op	2705	2694.53	6.31	2705	2693	8.61	2699	2641.83	32.8	2657	2521.47	59.37
		rnd	2709	2684.37	14.9	2701	2676.27	15.98	2698	2652.63	29.62	2653	2554.9	46.08
		2op	2708	2695.67	7.86	2713	2688.57	13.87	2693	2649.93	32.45	2666	2562.9	55.91

Table A.2675: f_{100_512} : transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16447	16224.47	110.72	16009	15459.27	248.58	13451	12655.37	392.95	11330	10605.43	236.77
		2op	16517	16231.7	151.01	15729	15376.97	181.82	13174	12594.1	336.01	11225	10599.17	265.4
	50	rnd	16421	16187.47	128.67	16219	15805.23	181.19	14372	13696.97	393.2	11174	10752.77	234.4
51	20	rnd	16403	16217.93	116.47	16160	15815.27	180.35	14381	13813.87	348.27	11127	10756.07	234.27
		2op	16702	16450.8	127.88	16626	16299.43	126.62	15782	15080.33	431.63	12911	12359.1	311.66
	50	rnd	16660	16467.47	111.68	16624	16301.8	139.5	15582	15039.3	322.19	13016	12432.2	254.66
	20	rnd	16630	16464.23	94.52	16597	16389.73	125.02	16012	15680	193.28	13849	12995.03	403.18
		2op	16684	16475.27	91.9	16661	16399.93	107.86	16067	15722.5	232.25	13846	13094.27	334.02

Table A.2676: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17802	17667.6	68.03	17621	17486.1	73.72	17360	16954.37	184.46	16052	15087.17	367.48
		2op	17775	17705.43	46.59	17698	17512.47	87.66	17454	17000.87	173.71	15720	14945.37	425.66
	50	rnd	17835	17741.8	61.2	17735	17554.93	122.51	17500	17321.9	114.48	16576	15958.77	332.36
51	20	rnd	17858	17728.13	60.05	17754	17583.3	106.12	17662	17348.3	168.78	16765	16085.33	330.62
		2op	17780	17685.17	66.71	17856	17601	123.41	17594	17415.87	140.41	16966	16639.43	247.63
	50	rnd	17853	17713.67	74.34	17791	17606.13	88.41	17730	17451.03	123.95	17100	16747.13	203.73
	20	rnd	17842	17734.6	44.08	17798	17656.4	71.75	17774	17573.3	92.89	17309	17011.53	217.17
		2op	17858	17754.87	61	17842	17671.27	73.09	17727	17566.57	85.28	17419	17028.93	209.54

Table A.2677: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16361	16164.97	124.52	15821	15418.73	203.37	13479	12678.57	388.85	10889	10495.4	247.25
		2op	16423	16160.37	130.65	16018	15456.9	312.38	13612	12591.47	417.84	11128	10461.57	249.48
	50	rnd	16351	16164.57	119.21	16031	15729.17	164.52	14050	13547.77	411.84	11138	10634.3	310.58
51	20	rnd	16420	16226.3	139.31	16103	15770	180.82	14703	13618.5	483.47	11169	10670.17	274.82
		2op	16760	16459.93	116.7	16557	16318.27	119.8	15435	14992.27	356.38	12836	12358.37	261.16
	50	rnd	16792	16448.47	139.3	16543	16291.67	139.23	15457	15042.03	327.87	12976	12312.93	373.93
	20	rnd	16717	16488.7	130.67	16552	16370.53	85.05	15921	15636	169.44	13731	13132.6	330.08
		2op	16620	16447.7	101.47	16688	16383.7	107.63	16083	15643	313.56	13595	13003.83	269.42

Table A.2678: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17819	17687.13	66.4	17627	17470.93	91.18	17287	16881.7	253.43	15452	14810.43	393.81
		2op	17832	17666.83	92.04	17767	17503.03	90.4	17290	16944.87	216.66	15705	14917.27	483.79
	50	rnd	17845	17717.7	64.76	17743	17553.3	106.94	17530	17219.67	186.87	16573	15843.6	340.13
51	20	rnd	17851	17730.13	67.45	17757	17564.1	82.06	17545	17268.2	168.94	16487	15893.53	306.82
		2op	17829	17686.73	69.08	17782	17567.9	84.93	17722	17438.97	113.27	17138	16768.83	231.64
	50	rnd	17831	17714.2	56.83	17796	17610.07	105.02	17691	17516.53	104.34	17248	16645.27	304.69
	20	rnd	17848	17726.3	61.48	17765	17659.63	68.9	17766	17562.27	89.42	17307	16964.83	215.21
		2op	17877	17761.03	75.32	17771	17662.67	64.9	17806	17570.73	104.69	17497	17114.03	180.81

Table A.2679: $f_{508.354}$: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	16830	16555.57	146.95	16754	16474.37	148.6	14317	13420.03	447.34	11142	10617.47	284.54
		2op	16801	16533.77	126.74	16631	16447.5	105.22	14650	13553.9	462.2	10947	10456.17	243.19
	50	rnd	16711	16390.47	119.75	16562	16357.3	125.92	14705	13928.3	468.32	11166	10629.83	248.12
51	20	rnd	16614	16347.57	144.55	16658	16363.3	133.88	14603	13845.9	413.38	11003	10589.93	197.77
		2op	17255	17031.2	99.31	17202	17000.23	130	16397	15953.73	256.25	13090	12215.3	312.52
	50	rnd	17275	17009.97	139.28	17356	17017	154.58	16363	15936.8	225.73	12595	12146.33	266.87
	20	rnd	16939	16744.47	118.64	17067	16757.5	142.68	16295	15969.07	237.45	13177	12640.2	314.28
		2op	16922	16753	96.79	16927	16744.87	137.04	16351	16013.5	186.35	13450	12741.33	359.3

Table A.2680: $f_{508.354}$: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17777	17692.2	48.78	17781	17604.13	99.83	17374	16956.5	198.18	15310	14591.67	347.99
		2op	17812	17718.9	48.65	17847	17681.97	86.32	17263	16997.37	213.88	15284	14578.47	440.91
	50	rnd	17837	17754.73	34.57	17813	17681.4	81.57	17509	17281.3	159.93	16148	15600.1	273.64
51	20	rnd	17855	17761.5	63.39	17802	17696	63.69	17554	17292.53	154.92	16077	15500.2	338.13
		2op	17851	17728.8	65.49	17830	17703.6	66.68	17623	17500.2	110.88	16557	16097.17	177.04
	50	rnd	17863	17754.5	51.89	17869	17718.5	58.38	17667	17513.23	76.14	16609	16147.57	235.2
	20	rnd	17810	17750.1	32.41	17831	17720.37	47	17754	17575.9	99.34	17018	16534.13	249.78
		2op	17896	17797.47	48.77	17842	17741.73	56.06	17718	17587.13	74.3	17223	16637.03	305.63

Table A.2681: $f_{508.354}$: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	20187	19963.73	133.78	19302	18886.7	273.65	15726	15047.27	433.81	13278	12823.17	271.13
		2op	20410	19996.93	187.45	19349	18755.17	433.34	15787	14951.73	475.7	13325	12839.77	211.52
	50	rnd	20276	19977	164.76	19689	19360.1	216.78	17297	16476	521.14	13638	13161.5	314.05
51	20	rnd	20244	19995.17	138.11	19747	19319.73	220.01	17436	16432.7	477.42	13819	13040.73	323.8
		2op	20519	20229.83	130.08	20285	19985.13	170.55	18864	18157.93	379.29	15571	14861.13	382.72
	50	rnd	20527	20287.2	132.37	20393	20052.8	201.78	18905	18155.2	426.45	15603	14979.07	344.75
	20	rnd	20574	20257.5	132.2	20476	20153.4	160.62	19457	19067.23	292.45	16281	15634.87	403.22
		2op	20517	20273.27	146.06	20458	20206.8	139.76	19583	19062.37	339.54	16709	15673.1	438.17

Table A.2682: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22057	21901.67	88.35	21871	21622.93	142.98	21474	20813.93	319.68	19349	18457.7	541.4
		2op	22042	21908	76.84	21884	21656.43	98.07	21418	20996.73	263.69	19284	18445	408.16
	50	rnd	22086	21972.3	65.14	21933	21757.4	97.31	21757	21367.97	149.21	20572	19702.83	483.13
51	20	rnd	22087	21961.43	62.18	21990	21781.13	94.1	21793	21432.87	166.93	20579	19791.23	403.27
		2op	22094	21920.43	82.52	21950	21770.27	127.79	21880	21582.2	153.04	20944	20455.53	325.72
	50	rnd	22123	21961.83	78.53	22000	21770.4	97.69	21862	21563.9	140.48	21041	20570.53	273.32
	20	rnd	22098	21964.77	67.68	21981	21837.73	83.67	21861	21719.4	84.54	21393	21023.1	218.32
		2op	22118	21972.9	84.09	22043	21853.83	110.4	21947	21731.9	124.14	21435	20930.6	266.48

Table A.2683: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	20226	19946.03	143.79	19247	18662.33	377.73	16210	14935.63	473.61	13190	12747.93	249.42
		2op	20290	19978.9	173.26	19300	18710	291.6	15720	14990.23	412.75	13213	12714.27	263.18
	50	rnd	20195	19958.87	137.28	19762	19283.17	275.21	17030	16385.77	400.44	13624	12975.03	375.16
51	20	rnd	20211	19965.77	114.66	19704	19299.57	258.33	17235	16433.67	531.73	13693	12957.97	313.16
		2op	20638	20262.63	157.73	20278	20037.7	129.55	18991	18305.43	317.8	15806	14815.73	310.86
	50	rnd	20528	20288.07	101.69	20310	20047.43	161.1	18937	18208.67	365.23	15826	14914.17	327.45
	20	rnd	20448	20209.3	131.26	20418	20137.77	134.05	19588	18954.37	327.21	16561	15638	422.74
		2op	20573	20316.37	131.84	20403	20130.1	141.59	19500	18993.8	263.24	16401	15573.67	417.16

Table A.2684: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22045	21870.9	74.52	21930	21668.03	125.93	21377	20904.73	244.72	19277	18347.07	485.89
		2op	22067	21887.07	96.67	21926	21636.3	142.53	21112	20800.1	207.8	19163	18437.03	450.69
	50	rnd	22101	21942	82	21923	21687.13	110.94	21753	21315.77	164.5	20279	19450.33	512.67
51	20	2op	22103	21965.97	77.28	21967	21790.37	123.38	21808	21313.97	259.44	20148	19530.5	315.89
		rnd	22097	21935.43	83.52	21999	21802.4	86.29	21766	21550.13	126.46	21142	20519.53	302.74
	50	2op	22049	21935.47	74.85	22044	21773.4	115.38	21868	21646.77	133.89	21109	20631.87	311.97
	50	rnd	22051	21967.6	58.33	22084	21832.07	113.96	21902	21687.4	119.95	21658	20948.7	299.52
		2op	22114	21980.03	70.76	22108	21863.93	98.36	21957	21735	123.02	21482	20961.67	227.93

Table A.2685: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	20573	20372.2	136.35	20652	20294	157.8	16967	16134.43	426.25	13446	12784.73	338.46
		2op	20575	20338.4	152.18	20456	20192.5	166.84	16931	16128.33	424.2	13481	12889.03	266.37
	50	rnd	20521	20209.13	125.58	20371	20095.03	157.05	17699	16668.77	608.02	13370	12892.37	295.06
51	20	2op	20500	20142.43	159.5	20387	20140.6	148.1	17567	16852.7	458.39	13503	12886.17	266.58
		rnd	21242	20890.43	145.58	21174	20896.73	123.55	19967	19259.5	411.6	15090	14550.4	261.31
	50	2op	21289	20931.67	129.1	21110	20872.33	122.64	20057	19374.23	346.48	15129	14611.27	339.4
	50	rnd	20823	20539.73	119.44	20957	20566.2	143.58	20066	19442.5	301.17	16287	15328.97	386.68
		2op	20930	20584.97	145.58	20900	20622.3	137.07	20064	19483.07	289.08	16310	15426.53	408.06

Table A.2686: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22113	21940.3	81.68	21993	21816.2	100.34	21156	20864.8	225.15	18551	17913.13	308.54
		2op	22054	21946.1	72.89	22007	21837.53	90.9	21302	20901.6	211.53	18797	17802	440.55
	50	rnd	22140	21986.97	73.53	22035	21900.33	78.59	21611	21323.8	140.69	19702	19050.57	394.38
51	20	2op	22104	22001.53	58.4	22051	21940.17	69.67	21832	21293.5	184.99	19695	19173.17	305.02
		rnd	22131	21968.53	77.67	22127	21929.93	81.05	21870	21639.8	122.97	20345	19625.9	402.31
	50	2op	22156	22016.53	70.64	22114	21974.57	71.17	21890	21675.07	121.99	20597	19593.4	432.03
	50	rnd	22110	22026.47	49.54	22080	21969.73	52.17	21925	21741.23	121.7	20932	20132.53	444.37
		2op	22153	22038.43	64.14	22139	21987.63	75.56	22051	21817.93	92.75	21128	20332.43	519.61

Table A.2687: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22518	22179	140.55	21306	20719.97	325.03	17082	16430.57	446.61	14602	14041.03	268.51
		2op	22480	22156.57	146.59	21123	20592.53	268.37	17565	16512.8	483.62	14874	14092.5	289.56
	50	rnd	22532	22223.87	179.32	21631	21287.43	257.98	18804	17998.83	594.52	14839	14362.47	248.14
51	20	rnd	22505	22158.93	145.21	21800	21323.73	252.66	19026	18006.43	568.93	15093	14296.37	347.42
		2op	22775	22443.1	169.02	22527	22141.27	163.36	20684	19743.33	566.79	17003	16398.5	327.46
	50	rnd	22859	22521.27	167.95	22489	22121.6	182.51	20721	19829.5	402.61	16955	16340.27	337.83
	20	rnd	22716	22516.93	131.97	22721	22311.63	198.45	21390	20957.77	290.1	17677	16993	436.06
		2op	22697	22481.37	171.43	22779	22340	187.64	21496	20970.67	309.08	17819	17053.63	435.42

Table A.2688: f_{737_355} : basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24619	24437.4	100.41	24322	24035.2	156.58	23661	23125.27	321.79	21028	20238.23	528.43
		2op	24566	24399	84.57	24327	24153.5	102.89	23706	23228.8	270.15	21153	20069.4	567.19
	50	rnd	24678	24493.23	96.1	24512	24280.1	107.25	24188	23791.17	229.47	22403	21690.43	483.28
51	20	rnd	24685	24536.03	64.11	24530	24289.83	107.49	24191	23711.47	216.95	22359	21655.17	467.42
		2op	24615	24459.43	98.16	24584	24290.5	134.82	24305	24086.03	151.57	23542	22711.67	366.17
	50	rnd	24669	24456.2	93.76	24600	24299	129.97	24395	24049.27	161.09	23125	22596.7	310.38
	20	rnd	24703	24547.63	81.28	24625	24377.97	113.69	24438	24200.8	130.56	23804	23087.17	433.74
		2op	24718	24558.2	79.17	24565	24375.07	108.33	24498	24240.33	160.93	23822	23172.13	380.96

Table A.2689: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22524	22145.17	134.99	21316	20688.87	299.34	17548	16354.03	441.99	14374	13942.67	225.83
		2op	22518	22141.3	133.12	21345	20656.6	337.36	17259	16472.9	432.03	14514	14020.87	232.16
	50	rnd	22538	22211.67	163.83	21803	21215.53	255.41	18950	17841.83	601.02	14943	14178.77	337.23
51	20	rnd	22385	22113.83	163.49	21870	21342.57	230.18	18879	17922.6	617.12	15013	14222.2	301.61
		2op	22755	22413.7	168.31	22448	22088.3	171.13	20496	19707.93	476.12	16829	16265.73	327.97
	50	rnd	22684	22439.97	133.63	22430	22116.67	202.41	20732	19859	462.01	16909	16311.77	313.05
	20	rnd	22772	22454.43	122.64	22528	22313.13	134.18	21538	20963.03	358.66	17624	16988.9	398.36
		2op	22807	22469.9	165.31	22524	22314.5	150.21	21274	20910.23	271.01	17870	17121.57	436.18

Table A.2690: f_{737_355} : basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24658	24432	93.91	24392	24140.27	149.52	23595	23060.83	280.33	21363	20176.47	549.22
		2op	24732	24419.87	113.26	24531	24133.77	199.52	23815	23107.27	335.84	21459	20171.87	671.59
	50	rnd	24633	24496.67	79.41	24566	24236.93	137.34	23989	23666.5	237.65	22343	21507.83	427.85
51	20	rnd	24633	24471.37	94.93	24493	24271.5	125.23	24050	23671.47	239.04	22002	21368.43	401.82
		2op	24602	24465.1	89.59	24529	24292.87	136.89	24401	24009.4	196.39	23162	22639.23	341.94
	50	rnd	24609	24444.8	77.74	24489	24274.53	140.11	24353	24051.33	180.6	23249	22739.4	336.19
	20	rnd	24720	24572.67	82.01	24597	24394.23	110.04	24386	24170.23	129.7	23691	23214.93	220.85
		2op	24701	24551.23	80.51	24670	24381.7	125.39	24505	24215.23	149.78	23736	23335.77	248.53

Table A.2691: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22786	22504.6	135.1	22827	22422.7	156.8	18200	17471.23	474.81	14841	14094.7	302.62
		2op	22890	22552.77	149.63	22785	22434.5	165.89	18265	17507.9	665.52	14924	14140.37	335.33
	50	rnd	22686	22389.5	133.65	22486	22289.27	139.45	19472	18256.2	624.51	15119	14176.97	284.18
51	20	rnd	22648	22401.07	143.49	22561	22279.6	158.44	19257	18292.97	586.71	14743	14229.97	274.78
		2op	23524	23028.03	186.12	23524	23042.57	185.81	22024	21143.5	416.04	17270	16014.83	489.28
	50	rnd	23417	23022.13	159.29	23503	23071.67	167.33	21789	21034.63	415.01	16630	16040.47	353.68
	20	rnd	23131	22752.37	172.8	22943	22742.2	141.8	21966	21366.8	356.45	17649	16887.83	328.52
		2op	23044	22734.1	137.98	23036	22728.33	178.79	21731	21230.77	287.09	17634	16958.3	382.51

Table A.2692: f_{737_355} : basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24598	24446.77	102.65	24573	24358.27	97.78	23474	23137.67	219.33	20388	19596.97	346.67
		2op	24763	24475.17	108.27	24529	24350.43	92.14	23587	23164.57	232.2	20933	19574.1	518.02
	50	rnd	24706	24531.03	77.79	24564	24392	102.95	24075	23657.1	247.6	21971	21237.13	343.05
51	20	rnd	24693	24550.27	65.3	24653	24468.17	114.59	24059	23650.53	229.54	21803	21122.63	427.37
		2op	24724	24492.8	92.26	24722	24455.27	107.54	24285	24062.7	116.11	22230	21325.1	329.32
	50	rnd	24644	24502.53	80.76	24644	24452.4	90.09	24326	24074.03	124.87	22426	21473.43	447.3
	20	rnd	24687	24581.8	63.71	24675	24514.97	78.77	24356	24238.43	79.78	23247	22366.7	590.7
		2op	24726	24624.5	61.22	24723	24549.77	73.1	24443	24252.2	139.95	23399	22259.27	598.89

Table A.2693: f_{737_355} : transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	42229	41713.53	188.88	38977	37924.97	660.78	30738	29459.8	647.68	27619	26776.93	358.46
		2op	42260	41759.27	250.53	39015	38095.7	599.87	30526	29543.13	576.54	27718	27000.5	399.36
	50	rnd	42831	42350.97	211.87	40902	39813.5	639.45	33364	31901.13	767.45	28249	27046.8	389.39
51	20	rnd	42764	42435.43	166.97	40711	39774.3	513.24	33496	31737.9	754.26	27702	27057.53	331.56
		2op	42598	42294.67	183.44	42421	41665.9	375.23	37047	35594.73	720.99	30496	29774.2	442.32
	50	rnd	42751	42361.87	219.43	42563	41752.7	426.02	37978	35913.8	823.4	30899	29807.17	479.59
	20	rnd	43295	42925.43	209.71	42990	42473.57	298.09	39248	38221.6	709.76	31706	30799	566.94
		2op	43363	42940.9	239.72	42924	42512.13	222.78	39413	38129.83	862.25	32288	30956.2	745.1

Table A.2694: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47663	47324.13	143.48	47542	46916.73	232.76	45922	44895.87	511.05	40131	38920.3	728.81
		2op	47633	47270.23	200.34	47176	46851.63	182.5	45680	44918.83	433.65	40903	38898	1011.21
	50	rnd	47872	47522.23	128	47455	47106.43	211.37	46965	46167.17	346.85	43415	41974.97	1000.7
51	20	rnd	47800	47535.5	149.78	47485	47153.77	207.15	46697	46145.6	309.06	43267	42002.33	923.64
		2op	47712	47393.53	195.14	47615	47162.63	206.07	47172	46670.03	270.13	45270	44056.7	590.27
	50	rnd	47792	47362.77	198.55	47543	47127.7	197.92	47271	46665.73	306.77	45097	43797.2	662.01
	20	rnd	47851	47561.77	128.35	47704	47321.97	199.55	47270	47005.5	175.18	45990	44965.07	706.63
		2op	47779	47610.43	116.3	47646	47293.6	174.97	47427	47021.93	180.6	45957	45057.63	423.62

Table A.2695: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	42106	41625.27	240.86	38747	37792.83	737.87	30293	29450.77	510.03	27496	26622.87	412.06
		2op	42088	41670.4	238.77	38917	37773.47	713.42	30341	29539.93	536.41	27559	26564.07	453.23
	50	rnd	42876	42291.87	239.42	40507	39609.03	714.07	33404	31654.8	887.15	27625	26773.77	382.91
51	20	rnd	42834	42325.2	205.79	40843	39532.6	578.33	33269	31622.83	994.84	27814	26911.6	389.15
		2op	42691	42278.33	186.28	42263	41787.17	309.18	36843	35627.97	790.64	31090	29852.47	410.76
	50	rnd	42840	42330.6	234.66	42696	41790.17	385.68	36522	35380.17	871.2	31029	29854.27	509.68
	20	rnd	43192	42884.97	211.1	42959	42504.2	280.37	39823	38134.03	1020.13	32093	30848.97	612.11
		2op	43631	43011.27	266.32	43048	42452.2	319.95	39373	38007.7	813.71	31753	30806.27	591.93

Table A.2696: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47779	47319.1	137.83	47163	46816.1	226.29	45889	44915.27	557.18	40488	39077.33	850.01
		2op	47672	47304.2	175.57	47243	46878.83	233.11	45792	44864.4	570.84	40743	38946.7	1186.23
	50	rnd	47744	47475.23	145.37	47377	47067.9	217.82	46436	45869.1	373.22	42185	41137.23	613.52
51	20	rnd	47733	47449.83	152.26	47303	46985.03	190.27	46545	45879.53	382.67	42848	41426.4	759.97
		2op	47711	47422.47	151.2	47512	47092.83	214.35	47071	46573.63	220.3	45002	43808.13	664
	50	rnd	47630	47383.67	128.13	47474	47123.1	186.7	47081	46626.5	260.52	45055	43865.97	580.2
	20	rnd	47793	47498.73	153.29	47722	47289.67	175.37	47302	46991.43	193.44	45625	44779.73	560.92
		2op	47807	47586.57	136.01	47703	47336.27	177.19	47490	47017.47	214.16	45614	45007.97	424.9

Table A.2697: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	42410	42079.3	175.3	42620	42132.37	214.85	33153	32066.53	722.36	27481	26775.07	452.03
		2op	42651	42202.67	246.69	42760	42197.33	288.16	33134	31941.6	667.01	27621	26793.5	381.5
	50	rnd	42743	42290.2	218.6	42613	42316.33	170.67	34392	32462.47	1133.93	27536	26765.03	310.53
51	20	rnd	42732	42317.73	243.3	42750	42337	217.91	34981	32890.63	1015.87	27725	26886.47	368.52
		2op	43501	42824.07	363.25	43501	42824.07	363.25	39185	38147.43	702.54	31302	29531.53	766.25
	50	rnd	43515	42940.13	310.8	43448	42953.6	295.91	39717	38183.63	999	31153	29868.03	655.98
	20	rnd	42767	42413.27	230.46	42767	42406.77	201.26	40696	39316.7	759.4	32085	30975.6	522.29
		2op	42826	42390.57	220.27	42888	42424.27	249.12	41034	39651.37	662.61	31926	30995.5	534.2

Table A.2698: f_{1343_354} : basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47634	47255.93	179.66	47591	47116.5	204.46	45174	44743.43	350.45	39483	37843.53	731.79
		2op	47788	47387.37	166.76	47574	47256.23	153.93	45543	44912.63	391.7	39600	38057.77	726.26
	50	rnd	47700	47514.67	112.85	47528	47339.23	91.98	46420	45901.5	321.68	41997	40701.33	672.74
51	20	rnd	47845	47575	157.58	47810	47399.63	183.88	46472	45802.53	548.59	42040	40954.6	812.98
		2op	47747	47422.43	152.06	47710	47386.93	153.26	47128	46734.8	187.66	42922	40198.67	1593.11
	50	rnd	47850	47480.83	147.54	47803	47440	143.12	47227	46828.77	220.86	43091	40509.83	1555.14
	20	rnd	47876	47597.73	118.15	47735	47518.03	114.65	47340	47014.8	168.22	44831	41607.03	1803.69
		2op	47820	47649.83	123.67	47790	47578.3	134.74	47309	47047.27	160.07	43084	41439	1200.44

Table A.2699: f_{1343_354} : transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48686	48107.93	279.49	44771	43539.37	914.08	36174	34199.53	725.84	32023	31167.3	407.71
		2op	48686	48191.93	245.64	45037	43853.63	705.54	35453	34249.03	728.83	32237	31123.43	410.82
	50	rnd	49710	49242.37	240.45	47140	45942.6	838.81	37411	36192.57	769.29	32566	31416.8	484.63
51	20	rnd	49715	49292.8	243.65	47338	46281.3	593.99	38140	36900.6	791.92	32253	31357.3	496.4
		2op	49321	48808.7	244.65	49377	48622	404.95	41981	40619	906.22	36042	34517.37	563.74
	50	rnd	49222	48755.5	252.41	49397	48497.77	371.78	42376	40881.93	986.68	35438	34677.97	459.76
	20	rnd	50281	49834.57	221.93	50011	49366.6	375.82	46264	44268.67	868.65	37067	35793.33	600.81
		2op	50462	49912.1	211.01	50038	49271.33	437.65	45218	43953.3	864.14	36882	35921.3	547.24

Table A.2700: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55640	55242.27	203.58	55131	54729.43	258.77	53482	52594.23	441.97	46873	45342.63	911.51
		2op	55707	55265.97	172.04	55184	54783.63	248.46	53548	52637.97	501.28	47748	45396.33	980.76
	50	rnd	55812	55422.93	173.69	55470	55033.17	235.04	54589	53898	402.29	50360	48872.8	1096.2
51	20	rnd	55758	55481.87	162.98	55321	55061	158.96	54782	54072.1	434.1	50143	48822	743.37
		2op	55609	55353.27	154.17	55524	55130.43	224.57	55224	54422.57	381.25	52739	51423.03	663.36
	50	rnd	55713	55357.67	178.09	55455	55078.77	182.17	55083	54480.83	346.38	52346	51348.47	600.68
	20	rnd	55868	55595.03	127.74	55575	55231.73	176.17	55480	54879.3	256.82	53894	52504.27	519.45
		2op	55790	55607.67	135.51	55653	55283.37	191.02	55347	54937.17	211.28	53495	52507.13	810.64

Table A.2701: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48544	48083.87	252.78	45204	43106	917.87	35159	33969.37	579.27	31768	30863.13	405.21
		2op	48609	48085.2	267.15	44968	43559.3	819.21	35107	34125.27	582.74	31692	30919.33	460.25
	50	rnd	49448	49104.5	190.99	47313	45907.43	630.9	38066	36336.1	824.14	32280	31046.57	539.8
51	20	rnd	49454	49120.5	216.47	47065	45875.87	831.15	38659	36226.03	1032.64	32055	31243.63	412.52
		2op	49538	48754.07	254.68	49456	48446.57	462.87	42043	40502.3	954.44	35801	34519.07	526.17
	50	rnd	49232	48761	240.63	49139	48324.6	487.44	43191	40955.83	896.28	35887	34565.2	628.98
	20	rnd	50102	49742.4	194.37	50032	49438.73	336.91	45526	44180.13	1003.08	36896	35596.6	567.11
		2op	50371	49830.07	240.99	49952	49344.7	458.87	45591	43797.8	929.66	37294	35657.77	694.63

Table A.2702: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55693	55259.97	213.79	55075	54745.27	226.1	53292	52418.93	658.79	48006	45262.87	1160.81
		2op	55554	55308.1	161.2	55288	54754.57	231.55	53780	52494.5	680.97	46917	45404.8	1096.39
	50	rnd	55756	55490.2	145.4	55409	55037.83	179.96	54502	53768.87	348.81	50076	48550.5	876.22
51	20	rnd	55702	55502.27	172.04	55509	55006.43	263.49	54299	53736.07	312.24	49936	48664.67	764.96
		2op	55623	55330.67	204.61	55474	55012.63	207.75	55026	54482.13	299.22	52496	51349.23	653.13
	50	rnd	55761	55382.8	194.14	55574	55210.27	159.03	55098	54439.13	283.58	52218	51148.83	812.87
	20	rnd	55807	55530.1	125.14	55730	55274.03	202.75	55224	54901	183.35	53736	52675.13	617.41
		2op	55842	55593.33	161.3	55556	55260.43	183.02	55507	54961.43	297.47	53418	52667.83	581.53

Table A.2703: *f1577_354*: transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48826	48361.73	273.92	48844	48386.1	249.33	37819	36714.37	615.34	31988	31142.5	412.81
		2op	49045	48436.4	286.45	49045	48626.73	208.46	38633	37212.4	926.38	31985	31259.83	355.04
	50	rnd	49133	48686.53	203.38	49134	48676.03	260.21	39739	37701.77	1242.2	32130	31158.23	401.15
51	20	rnd	49377	48751.17	247.63	49219	48710.1	250.57	39988	37849.57	1190.7	32177	31370.8	304.03
		2op	49643	49113.5	269.64	49643	49113.5	269.64	45951	44500.7	846.39	36172	34539.07	860.99
	50	rnd	49878	49173.17	336.43	49776	49166.1	350.4	45822	44120.97	1014.37	35860	34405.9	648.3
	20	rnd	49012	48580.63	242.15	48971	48525.1	202.12	47561	45794.37	805.14	36900	35868.63	744.9
		2op	48964	48519.3	243.14	49466	48609.27	297.89	47313	45984.37	886.7	37289	35908.17	695.67

Table A.2704: *f1577_354*: basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55533	55250.87	150.79	55468	55100.03	163.46	53597	52535.27	427.38	46233	44523.87	671.4
		2op	55692	55342.53	151.84	55413	55210.23	154.99	53345	52410.43	472.4	45981	44328.83	674.18
	50	rnd	55769	55442.67	155.14	55652	55255.07	197.46	54273	53480.4	568.21	48971	47628.8	563.29
51	20	rnd	55754	55581.33	109.18	55585	55374.03	150.57	54382	53606.03	500.92	49591	47860.33	793.59
		2op	55753	55409.07	181.32	55750	55381.37	187.88	54982	54587.17	295.44	50380	46287.67	1769.97
	50	rnd	55858	55470.27	165.61	55843	55435.9	176.88	55121	54587.63	293.93	50394	46199.4	1590.55
	20	rnd	55734	55572.57	110.54	55730	55486.3	117.97	55290	54936.47	187.54	50661	47726.63	1961.36
		2op	55815	55627.63	107.92	55748	55548	101.84	55519	55025.93	210.13	52749	48127.57	2263.4

Table A.2705: *f1577_354*: transRRGA+IM – Suspected Optimal is 57373

Results With Post Optimization and Forced Recentre

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47269	47112.2	76.22	47290	47129.77	113.66	47421	47167.5	119.83	47456	47187.43	120.81
		2op	47331	47177.93	79.3	47325	47154.5	92.11	47408	47156.3	126.19	47405	47204.7	103.24
	50	rnd	47370	47130	111.51	47381	47154.57	118.7	47375	47147.43	117.22	47441	47138.57	122.41
51	20	rnd	47367	47169.63	94.48	47365	47195.9	100.79	47412	47202.4	99.09	47388	47175.17	146.03
		2op	47429	47207.63	87.76	47394	47206.53	99.11	47391	47208.27	76.91	47385	47220.67	101.53
	50	rnd	47384	47207.53	98.56	47362	47232.5	62.77	47383	47186.33	102.74	47401	47211.07	90.11
	20	rnd	47357	47206.13	76.68	47451	47214.3	99.92	47401	47214.1	107.44	47363	47225.37	90.91
		2op	47392	47182.67	96.77	47408	47219.07	82.32	47425	47195.8	97.68	47429	47206.1	93.89

Table A.2706: *acin1*: basicRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47367	47159.5	108.04	47361	47173.3	110.85	47358	47184	105.74	47378	47193.47	130.19
		2op	47481	47259	91.01	47411	47234.9	118.4	47465	47226.83	98.13	47396	47230.03	116.06
	50	rnd	47313	47144.67	107.41	47426	47230.17	108.57	47385	47181.33	114.07	47463	47254.6	97.7
51	20	rnd	47395	47231.87	81.99	47425	47284.7	77.71	47418	47223.63	100.71	47427	47216.03	131.96
		2op	47385	47230.63	99.29	47437	47331.3	59.94	47395	47206.53	107.72	47457	47218.13	117.36
	50	rnd	47438	47275.83	75.12	47438	47335.53	61.38	47374	47236.93	82.46	47413	47267.2	91.48
	20	rnd	47342	47218.07	86.84	47497	47324.77	79.95	47358	47219.3	71	47423	47238.57	89.51
		2op	47325	47227.93	79.35	47451	47340.23	76.51	47408	47240.2	91.67	47417	47256.3	82.45

Table A.2707: *acin1*: transRRGA – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47349	47164	82.16	47292	47160.67	100.04	47377	47186.03	89.34	47363	47179.37	85.28
		2op	47350	47207	81.06	47312	47162.97	73.56	47323	47134.03	143.5	47394	47188.2	119.02
	50	rnd	47336	47151.57	118.07	47350	47142.7	107.1	47379	47146.7	97.01	47353	47168.97	122.35
51	20	rnd	47427	47185.73	116.75	47406	47199.17	94.04	47362	47174.6	117.74	47432	47159.7	119.43
		2op	47323	47210.33	66.35	47316	47196.7	84.24	47397	47237.97	90.62	47418	47224.63	104.81
	50	rnd	47388	47228.63	98.57	47515	47229.83	108.36	47404	47217.87	86.65	47336	47223.8	77.45
	20	rnd	47373	47183.27	105.78	47346	47195.9	96.23	47379	47199.93	94.91	47360	47196.57	80.11
		2op	47410	47209.1	77.74	47350	47203.47	98.14	47384	47203.53	112.75	47376	47212.97	80.02

Table A.2708: *acin1*: basicRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47359	47204.13	102.11	47410	47175.17	104.35	47405	47218.8	93.19	47399	47256.6	85.7
		2op	47422	47266.27	101.06	47432	47266.63	93.72	47371	47232.23	95.84	47454	47243.63	85.99
	50	rnd	47408	47159.93	118.76	47418	47205.43	109.65	47334	47164.07	105.64	47411	47208	129.56
51	20	2op	47427	47243.97	110.3	47405	47303.3	79.79	47445	47242.93	132.36	47416	47219.43	109.68
		rnd	47346	47212.4	84.6	47424	47292.27	79.99	47348	47227.13	84.53	47436	47257.7	114.54
	50	2op	47440	47274.3	79.52	47489	47345.6	78.51	47402	47241.7	93.71	47340	47242.43	86.74
	20	rnd	47322	47199.53	101.18	47484	47356.67	61.23	47406	47201.37	99.89	47421	47250.47	125.05
		2op	47396	47264	83	47465	47357.2	49.8	47380	47262.27	82.02	47430	47254.93	71.56

Table A.2709: *acin1*: transRRGA+RS – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47359	47236.03	70.32	47094	46770.9	143.73	47097	46752.8	158.26	47028	46743.03	137.86
		2op	47356	47265.67	42.51	47149	46800.2	219.07	47072	46760.13	200.26	47140	46787.7	189.04
	50	rnd	47419	47217.4	85.41	47072	46780.97	142.72	47095	46821.27	136.49	47085	46761.63	176.58
51	20	2op	47494	47265.4	68	47141	46774.67	205.06	46994	46783.53	149.7	47016	46796	117.57
		rnd	47368	47253.2	62.99	47151	46821.63	182.78	47225	46896.53	170.95	47082	46827.87	163.98
	50	2op	47396	47336.6	35.12	47109	46812.2	187.08	47258	46895.67	189.91	47182	46792.5	171.09
	20	rnd	47452	47316.9	58.59	47143	46898.6	130.48	47288	46842.7	160.16	47152	46794.47	151.33
		2op	47427	47352.5	38.23	47184	46882.1	145.29	47131	46861.9	155.39	47085	46789.47	126.81

Table A.2710: *acin1*: basicRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47381	47233.8	94.1	47133	46872.4	135.31	47111	46803.5	163.84	47065	46759.43	137.73
		2op	47434	47299.17	55.83	47239	46950.73	165.43	47092	46832.33	148.04	47095	46809.43	163.67
	50	rnd	47433	47258.43	82.61	47350	47114.2	153.82	47381	46858.77	193.58	47143	46799.8	173.63
51	20	2op	47477	47330	74.35	47289	47066.73	198.23	47115	46924.67	125.69	47047	46756.63	187.31
		rnd	47374	47295.63	50.75	47231	46974.33	150.14	47333	46958.77	167.93	47075	46815.13	171.69
	50	2op	47413	47346.93	31.98	47394	47045.77	150.12	47285	46897.83	195.57	47102	46849.87	155.17
	20	rnd	47417	47315.9	48.49	47393	47238.7	112.72	47352	46989.3	134.11	47112	46796.43	162.96
		2op	47443	47367.8	32.03	47416	47192.87	148.28	47227	46984.13	152.32	47064	46806.87	164.05

Table A.2711: *acin1*: transRRGA+IM – Suspected Optimal is 47618

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151264	151017.63	244.17	151246	150889.4	370.69	151251	150855.7	385.72	151242	150876.03	355.09
		2op	151252	150870.17	363.34	151258	150873.37	471.14	151233	150899.7	301.93	151229	150729.97	368.92
	50	rnd	151239	150990.5	339.16	151291	150940.77	364.71	151224	150906.93	384.29	151237	150795.57	453.47
51	20	rnd	151260	150957.87	309.02	151239	150886.57	338.09	151232	150981.27	311.93	151241	150865.1	283.13
		2op	151290	151050.87	338.27	151271	151015.43	319.75	151263	150855.67	384.01	151252	150753.3	465.39
	50	rnd	151276	151052.73	262.31	151265	151003.5	316.17	151248	150916.5	352.11	151253	151004.13	282.27
	20	rnd	151228	151057.17	207.12	151263	151071.63	267.32	151266	151049	234.7	151242	150792.77	383.75
		2op	151260	151132.93	138.77	151280	151001.03	333.04	151252	150921.07	359.52	151197	150871.47	399.93

Table A.2712: *acin2*: basicRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151298	151035.53	275.78	151289	151084.07	240.77	151301	151068.77	243.22	151234	150809.27	455.6
		2op	151285	151104.47	214.94	151310	151056.4	244.44	151290	151028.23	252.71	151267	150867.87	424.1
	50	rnd	151301	151076.97	237.63	151311	151116	235.73	151299	151018.1	264	151250	150958.87	335.77
51	20	rnd	151308	151144.23	160.94	151270	151093.1	249.6	151283	151130.53	178.44	151305	151069.1	225.92
		2op	151279	151140.93	173.84	151266	151093.7	221.73	151283	151102.33	213.82	151256	151104.8	213.82
	50	rnd	151341	151152.97	168.84	151293	151175.87	130.34	151286	151115.53	188.83	151262	151035.23	309.1
	20	rnd	151271	151146.07	150.25	151284	151180.67	130.71	151275	151122.2	186.41	151335	151115	219.36
		2op	151317	151163.4	147.63	151343	151153.5	191.24	151301	151084.03	225.4	151293	150997.07	276.93

Table A.2713: *acin2*: transRRGA – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151255	151031.3	219.85	151226	150831.5	458.78	151237	150729.83	467.77	151208	150616.43	424.59
		2op	151251	150992.83	280.83	151265	150986.47	289.58	151247	150849.87	394.37	151214	150736.9	516.65
	50	rnd	151234	151013.33	252.66	151243	150932.03	368.76	151294	150890.63	380.02	151236	150764.5	412.14
51	20	rnd	151236	150927.43	378.08	151294	150964.8	346.4	151252	150757.37	460.95	151261	150867	465.38
		2op	151252	150978.63	326.24	151229	150991.1	298.66	151272	151031.13	249.9	151240	150825.57	394.38
	50	rnd	151259	150966.3	352.96	151268	151033.23	258.64	151240	150904.47	345.69	151256	150855.5	313.7
	20	rnd	151253	151003.6	317.94	151246	151035.73	265.5	151230	150980.63	275.95	151243	150990.77	312.82
		2op	151256	151006.07	250.48	151316	151049.23	304.84	151210	150966.53	286.02	151214	150856.83	393.36

Table A.2714: *acin2*: basicRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151320	151177.67	149.2	151315	151101.13	248.26	151276	151122.9	195.56	151249	150916.23	298.06
		2op	151324	151047.33	297.05	151284	151126.83	201.39	151280	150963.7	358.82	151272	150888.8	358.27
	50	rnd	151307	151131.73	196.88	151286	151109.8	241.42	151260	151079.93	265.37	151275	151033.77	320.14
51	20	2op	151321	151188.1	125.25	151254	151014.9	297.47	151289	151076.37	288.61	151247	150932.9	438.94
		rnd	151284	151142.4	183.59	151342	151190.93	86.52	151273	151107.67	208.01	151300	151016.5	310.91
	50	2op	151321	151075.6	284.14	151297	151083.03	264.54	151278	151010.23	341.12	151292	150973.3	319.67
	50	rnd	151290	151105.8	172.5	151300	151141.93	188.08	151309	151102.03	282.31	151319	151135.3	186.46
		2op	151261	151104.23	197.65	151303	151136.23	178.84	151302	151150.27	189.33	151271	151027.93	256.08

Table A.2715: *acin2*: transRRGA+RS – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151295	151089.67	190.64	151193	150691.07	494.66	151266	150820.5	358.69	151268	150712.8	442.37
		2op	151265	151067.4	236.77	151231	150708.93	487.25	151242	150737.53	553.76	151258	150604.1	553.21
	50	rnd	151231	150997.07	269.43	151220	150874.8	431.35	151225	150617.17	521.82	151232	150760.57	467.15
51	20	2op	151256	150957.37	321.7	151238	150746.47	423.58	151231	150719.3	532.95	151241	150883.03	421.65
		rnd	151276	151142.57	147.33	151207	150685.63	500.48	151224	150705.57	443.32	151262	150684.17	479
	50	2op	151239	151085.73	247.74	151212	150758	441.68	151233	150785.33	523.48	151250	150675.9	494.36
	50	rnd	151301	151161.73	113.19	151206	150702.97	438.17	151202	150776.7	436.2	151246	150687.2	467.92
		2op	151264	151105.07	199.61	151221	150599.97	576.34	151232	150791.53	386.37	151161	150560.9	460.85

Table A.2716: *acin2*: basicRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	151329	151197.47	74.05	151240	150755.47	531.82	151213	150838.1	486.65	151296	150864.4	398.24
		2op	151284	151105.47	196.99	151248	150751.57	453.64	151222	150682.37	532.68	151212	150757.3	399.83
	50	rnd	151277	151135.17	262.12	151232	150855.3	350.43	151251	150881.6	345.83	151190	150721.7	459.22
51	20	2op	151302	151215.9	45.73	151227	150757.8	503.49	151239	150817.57	316.12	151199	150652.9	484.01
		rnd	151318	151185.87	81.86	151221	150926.77	318.61	151199	150810.27	387.43	151245	150976.37	263.67
	50	2op	151290	151222.33	47.69	151253	150727.53	421.55	151234	150813.63	401.92	151193	150706.5	482.21
	50	rnd	151278	151162.47	154.98	151279	150903.2	319.61	151227	150834.27	492.41	151238	150766.63	437.93
		2op	151335	151172.93	132.34	151277	150878.9	405.13	151232	150824.9	461.04	151236	150797.57	490.19

Table A.2717: *acin2*: transRRGA+IM – Suspected Optimal is 151553

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167036	166458.73	330.49	167015	166502	337.94	166981	166386.47	369.8	166805	166227.9	430.81
		2op	167160	166566.43	300.49	166949	166517.07	334.71	166975	166431.97	404.89	166834	166384.23	326.8
	50	rnd	167019	166617.73	289.07	166996	166624.83	251.95	166795	166386.7	358.98	166919	166405.4	381.45
51	20	rnd	166909	166518.3	274.06	166775	166388.43	337.98	166805	166300.17	423.97	166980	166362.3	370.18
		2op	167175	166684.17	240.8	167186	166629.93	224.2	167120	166588.7	265.93	166961	166370.93	387.51
	50	rnd	166811	166598.2	140.18	167204	166485.6	342.76	166921	166512.5	320.77	166952	166431.47	389.02
	20	rnd	167175	166731.67	263.36	167043	166615.07	323.75	167106	166651.37	285.1	166952	166416.6	456.49
		2op	166973	166583.3	192.66	166980	166624.7	195.12	166801	166511.13	207.74	166866	166441.17	331.11

Table A.2718: *acin3*: basicRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167145	166591.03	235.09	167007	166676.5	195.54	166929	166538.1	235.82	166757	166345.87	334.08
		2op	166982	166592.4	241.91	166859	166449.7	371.38	166887	166492.7	301.78	166982	166467.47	350.81
	50	rnd	167018	166453.27	298.75	166969	166528.87	272.19	167011	166532.1	328.5	166827	166509.2	280.11
51	20	rnd	167156	166577.43	277.41	167012	166585.17	273.61	167133	166584.3	253.41	166996	166322.9	400.68
		2op	167139	166617.6	299.45	166991	166653.13	260.46	166912	166608.93	223.16	167001	166597.77	329.16
	50	rnd	167074	166631.47	192.77	167004	166623.1	249.72	166963	166571.1	337.02	166938	166550.4	249.43
	20	rnd	167038	166595.43	240.73	166967	166616.6	199.27	167028	166586.1	227.66	167010	166545.27	265.72
		2op	166855	166618.43	253.68	166918	166577.93	245.86	166825	166568.27	242.83	166836	166468.8	314.78

Table A.2719: *acin3*: transRRGA – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167046	166473.37	304.01	166854	166461	335.34	167066	166307.2	426.98	166966	166487.7	266.32
		2op	166948	166480.87	362.31	166760	166377.97	252.06	166703	166262.7	314.15	166992	166503.83	308.55
	50	rnd	166987	166585.23	205.69	167031	166457.6	346.91	166934	166415.73	340.67	166973	166453.63	296.48
51	20	rnd	166868	166582.77	235.18	166896	166448.07	392.99	167014	166517.93	264.72	166799	166307.57	493.89
		2op	167290	166714.03	308.74	167287	166642	294.37	167106	166531.1	431.24	166984	166548.53	275.15
	50	rnd	166977	166572.27	344.58	166903	166558.87	242.27	167039	166553.53	294.15	166867	166289.13	439.23
	20	rnd	167292	166660.73	297.24	167186	166715.07	286.29	166962	166579.5	243.25	166924	166482.6	431.92
		2op	166954	166574.7	234.96	166840	166609.9	170.2	167061	166544.7	249.07	167087	166349.27	439.33

Table A.2720: *acin3*: basicRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167012	166620.33	302.38	166943	166502.77	287.46	166979	166531.67	277.15	166956	166399.77	428.18
		2op	166899	166435.63	281.4	166970	166508.93	305.71	167039	166533.53	347.25	167051	166487.63	296.42
	50	rnd	167195	166520.77	357.54	167039	166539.43	271.71	166851	166534.07	220.45	167000	166491.23	385.25
51	20	2op	166964	166557.5	296.93	166992	166466.53	356.73	166905	166513.9	294.26	166967	166430.03	332.61
		rnd	166994	166624.17	222.97	167073	166591.9	235.2	167031	166614.37	304.31	167204	166558.7	309.08
	50	2op	167073	166628.07	285.18	167217	166571.4	299.07	167060	166593.97	272.65	167034	166495.37	405.62
	20	rnd	167008	166644.17	322.85	167001	166629.17	200.24	166905	166623.43	186.6	167036	166470.03	339.29
		2op	167064	166638.9	279.05	166895	166630.6	234.42	166915	166590.73	264.97	167038	166540.5	340.02

Table A.2721: *acin3*: transRRGA+RS – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	167093	166612.83	333.5	166921	166365.57	305.2	166910	166254.97	475.32	166864	166196.53	443.06
		2op	167036	166491.2	310.77	167007	166368.4	348.01	166925	166177.97	447.06	166944	166232.57	449.8
	50	rnd	167117	166608.37	241.38	166921	166422.8	345.24	166836	166194.77	514.58	167064	166308.2	420.74
51	20	2op	167064	166502.53	266.32	166937	166388.23	291.95	166893	166304.73	419.99	166894	166320.2	384.66
		rnd	167123	166832.83	192.33	167337	166752.3	323.54	166787	166225.1	466.95	166938	166436.9	340.34
	50	2op	167077	166709.77	138.36	167028	166522.83	287.1	166923	166318.8	370.86	166928	166222.47	393.09
	20	rnd	167158	166711.43	310.53	167229	166740.2	283.69	167057	166154.03	470.6	166982	166435.57	343.52
		2op	166978	166644.57	206.98	167008	166596.57	433.81	166958	166251.57	444.02	166742	166284.87	462.45

Table A.2722: *acin3*: basicRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	166955	166640.93	270.76	166872	166195.27	401.16	166898	166383.67	373.21	166825	166154.4	507.6
		2op	166972	166593.1	264.22	166941	166392.57	349.48	166934	166289.37	494.84	167033	166220.6	459.48
	50	rnd	167048	166691.6	245.71	166946	166257.17	361.29	166840	166335.03	343.64	167170	166291.73	399.99
51	20	2op	167198	166641.53	249.7	167034	166422.37	335.88	167117	166305.2	433.49	166794	166332.77	361.94
		rnd	167160	166809.6	176.4	166957	166444.87	343.04	166960	166213.8	479.94	166802	166342.17	332.09
	50	2op	167101	166648.17	202.75	166960	166343.93	401.39	166955	166390.77	395.03	166867	166293	442.26
	20	rnd	167060	166758.47	190.52	167268	166471.1	309.28	166742	166212.63	447.54	166965	166259.9	442.15
		2op	167014	166674.9	209.15	167147	166366.27	414.61	166945	166341.63	423.08	166773	166332.5	327.98

Table A.2723: *acin3*: transRRGA+IM – Suspected Optimal is 167877

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163150	162987.93	106.25	163110	162948.8	95.84	163064	162934.53	118.51	163159	162979.7	139.23
		2op	163150	162985.03	57.48	163163	162944.53	106.65	163149	162948.63	111.99	163138	162980.3	97.06
	50	rnd	163098	162963.1	99.18	163138	162933.8	111.72	163057	162936.03	90.25	163137	162954.87	97.69
51	20	rnd	163137	162955.9	93.08	163098	162972.17	72.71	163077	162929.23	110.94	163075	162953.03	93.48
		2op	163138	162962.67	101.48	163203	163004.87	75.54	163103	162972.57	75.06	163127	162975.33	84.42
	50	rnd	163141	162987.13	93.73	163204	162975.5	111.51	163155	162998.2	75.33	163142	162996.03	73.14
	20	rnd	163134	162996.83	101.95	163178	162963.03	124.1	163094	162961.83	104.78	163135	162961.8	98.99
		2op	163142	162974.3	80.1	163170	162991.1	69.93	163133	162948.77	111.34	163068	162960.03	68.11

Table A.2724: *acin5*: basicRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163156	163060.83	69.65	163251	163077.37	77.57	163241	163083.87	70.83	163199	163022.53	84.69
		2op	163175	163083.8	72.75	163238	163041.43	89.89	163238	163101.8	79.1	163326	163048.87	115.5
	50	rnd	163204	163051.03	96.38	163280	163077.13	65.02	163198	163060.2	98.07	163183	163042.13	70.8
51	20	rnd	163180	163032.8	90.11	163261	163052.17	92.49	163201	163073.67	72.18	163225	163087.23	68.57
		2op	163169	163073.37	57.31	163287	163088.33	88.97	163234	163078.43	77.88	163215	163094.37	73.02
	50	rnd	163202	163075.8	60.24	163198	163084.5	70.29	163278	163097.7	68.15	163185	163084.07	63.47
	20	rnd	163191	163069.9	82.37	163192	163066.8	79.4	163256	163074.6	81.78	163183	163061.7	72.12
		2op	163233	163067.9	85.08	163211	163084.43	68.98	163228	163054.1	83.32	163192	163079.27	89.96

Table A.2725: *acin5*: transRRGA – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163159	162997	98.28	163215	162988.6	108.02	163106	162952.07	84.2	163170	163016.1	74.64
		2op	163094	162944.23	91.77	163137	162964.43	93.7	163108	162948.4	107.99	163140	163013.37	81.84
	50	rnd	163132	162925.8	106.88	163157	162970.2	75.62	163122	162957.27	68.47	163188	162958.83	90.02
51	20	rnd	163126	162981.07	91	163136	162937.63	99.02	163098	162951.03	111.64	163117	162978.53	96.48
		2op	163119	162976.57	98.65	163108	162972	71.96	163078	162940.7	102.15	163148	162977.63	98.12
	50	rnd	163140	162996.47	71.65	163260	162987.8	95.6	163139	162968.17	101	163193	162983.93	86.7
	20	rnd	163130	162974.87	93.26	163133	162967.17	115.29	163171	162962.17	123.89	163156	162950.73	120.33
		2op	163143	162985	98.82	163132	163007.1	79.98	163113	162930.73	98.37	163152	162993.13	85.14

Table A.2726: *acin5*: basicRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163163	163028.7	84.55	163190	163040.97	93.48	163214	163067.9	103.14	163124	163017	87.96
		2op	163269	163086.5	99.88	163233	163078.53	77.98	163252	163094.23	101.59	163245	163046.33	109.17
	50	rnd	163247	163059.13	60.78	163262	163047.93	95.04	163246	163059.77	105.21	163160	163035.53	75.55
51	20	2op	163215	163047.73	67.18	163193	163069.1	79.08	163181	163061.17	89.76	163262	163070.23	72.42
		rnd	163188	163051.9	66.18	163167	163048.2	68.07	163290	163077.67	68.35	163207	163078.43	63.83
	50	2op	163254	163093.07	85.44	163181	163060	80.5	163180	163069.7	63.83	163205	163060.07	85.27
	20	rnd	163185	163042.47	107.73	163242	163077.03	76.4	163215	163067.33	92.51	163160	163047.33	54.65
		2op	163186	163063.7	61.88	163195	163071.8	74.38	163190	163067.37	78.33	163285	163103.23	71.22

Table A.2727: *acin5*: transRRGA+RS – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163115	162941.73	111.83	163101	162923.53	139.22	163112	162950.6	88.87	163149	162962.33	131.22
		2op	163107	162979.87	82.47	163107	162951.27	80.89	163108	162948.67	94.29	163119	162950.1	100.38
	50	rnd	163122	162939.33	96.99	163128	162962.93	86.77	163102	162941.07	106.93	163095	162963.57	72.13
51	20	2op	163145	162941.23	97.77	163076	162913.2	101.83	163100	162960.37	67.59	163119	162952.87	120.4
		rnd	163166	162993.7	74.44	163173	162966.67	123.46	163107	162963.83	88.25	163084	162942.27	92.61
	50	2op	163185	163015.53	91.23	163186	162963.17	124.91	163106	162947.33	101.47	163141	162936.17	136.95
	20	rnd	163112	163001.7	67.57	163206	162987.77	86.32	163096	162940.43	106.5	163071	162946.7	127.18
		2op	163215	162981.97	96.37	163105	162985.23	53.08	163135	162946.67	85.26	163120	162943.6	125.06

Table A.2728: *acin5*: basicRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	163109	163015.53	88.87	163141	162961.43	105.31	163112	162976.9	78.18	163091	162953.87	89.59
		2op	163246	163060.13	85.34	163124	162977.33	80.66	163161	162956.6	119.49	163135	162962.67	100.64
	50	rnd	163160	163041.9	67.75	163084	162955.03	95.95	163110	162970.07	65.9	163083	162941.7	107.88
51	20	2op	163170	163043.17	91.36	163160	162939.13	116.1	163089	162961.47	81.8	163115	162976.7	76.63
		rnd	163206	163017.2	72.81	163168	162990.03	87.66	163140	162981.5	89.68	163096	162988.77	61.5
	50	2op	163212	163074.33	68.69	163251	162974.67	79.73	163129	163002.37	69.12	163109	162941.53	104.13
	20	rnd	163219	163051.77	72.56	163096	162961.63	65.53	163088	162971.57	126.31	163185	162986.1	82.09
		2op	163176	163049.3	65.35	163124	162980.53	76.52	163098	162973.27	79.94	163095	162972.43	117.01

Table A.2729: *acin5*: transRRGA+IM – Suspected Optimal is 163906

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179841	179712.73	93.33	179822	179697.97	73.85	179916	179705.17	77.13	179982	179743.7	102.45
		2op	179893	179721.47	75.3	179877	179747.43	82.28	179914	179738.73	87.71	179964	179761.6	88.93
	50	rnd	179921	179715.2	100.54	179838	179737.77	60.24	179927	179695.6	88.74	179923	179742.7	80.65
51	20	rnd	179940	179747.2	90.73	179894	179742.3	79.64	179871	179688.93	71.85	179933	179748.03	97.52
		2op	179970	179771.23	88.43	179878	179746.33	78.89	179910	179726.77	88.25	179886	179735.67	90.72
	50	rnd	179908	179758.67	66.62	180021	179747.8	103.29	179874	179725.5	69.87	180017	179779.53	92.45
	20	rnd	179925	179751.23	102.25	179960	179796.23	80.87	179885	179698.53	77.79	179880	179683.87	106.01
		2op	179914	179767.83	74.32	179963	179758.5	79.84	179857	179736.83	73.88	179940	179729	93.81

Table A.2730: *acin7*: basicRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179948	179804.3	88.44	180034	179832.4	79.82	179987	179853.6	88.58	179959	179809.3	78.33
		2op	180018	179861.03	82.27	180022	179863	73.8	180104	179874.9	85.66	179974	179816.53	96.76
	50	rnd	179919	179804.43	76.22	180020	179812	107.97	180028	179830.83	87.43	179998	179848.8	62.54
51	20	rnd	180045	179841.87	84.84	180001	179837	75.82	179982	179871.07	70.66	179961	179858.1	75.61
		2op	179985	179838.93	88.41	179984	179850.27	75.96	179978	179853.57	80.44	180016	179872.93	70.61
	50	rnd	180035	179871.13	87.61	180005	179867.2	79.86	180120	179896.23	87.22	180013	179879.13	95.52
	20	rnd	179972	179825.93	66.24	180016	179808.67	96.41	179985	179831.83	79.8	180035	179872.7	88.94
		2op	179998	179838.5	99.67	180085	179894.73	92.52	180044	179872.73	102.93	180039	179880.83	99.1

Table A.2731: *acin7*: transRRGA – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179963	179710.2	104.75	179904	179705.4	92.32	179906	179703.03	90.82	179959	179727.4	113.11
		2op	179874	179706.3	81.58	179897	179709.5	110.71	179926	179722.93	109.13	180020	179773.1	87.83
	50	rnd	179928	179718.97	91.08	179859	179700.47	91.04	179948	179691.13	98.32	179846	179717.47	85.82
51	20	rnd	179888	179725.43	82.69	179842	179702.1	75.37	179846	179684.87	81.32	179883	179746	85.68
		2op	179878	179743.27	72.35	179864	179748.43	70.66	179889	179726.4	74.46	179900	179746.37	84.79
	50	rnd	179984	179753.33	100.83	179877	179741.67	78.61	179924	179753.5	91.04	179911	179736.87	77.22
	20	rnd	179867	179715.67	94.64	179988	179742.7	86.05	179878	179706.1	84.91	179865	179723.83	72.45
		2op	179858	179754.53	80.23	180006	179772.8	109.21	179960	179724.8	111.99	179909	179744.43	91.23

Table A.2732: *acin7*: basicRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179940	179828.6	63.02	179979	179844	76.49	179998	179852.67	73.01	179978	179825.7	81.65
		2op	180011	179848.27	81.29	179979	179844.23	64.66	179993	179851.07	71.03	179919	179813.97	73.16
	50	rnd	179991	179827.8	77.67	179993	179830.77	78.21	180017	179852.5	74.21	180028	179871.87	72.65
51	20	rnd	180054	179804	90.83	180033	179872.63	75.6	179996	179859.53	73.83	179997	179864.07	71.35
		2op	180027	179833.03	101.61	179982	179825.5	82.53	180002	179850.53	81.96	180021	179868.87	84.47
	50	rnd	179990	179877.8	60.05	180073	179888.07	86.45	180041	179919.1	76.12	180014	179886.3	51.86
	20	rnd	179907	179783.53	86.64	179996	179834.9	83.25	179986	179842.77	73.22	180025	179877.3	80.32
		2op	179985	179844.27	82.64	180006	179857.43	83.64	179987	179863.73	72.19	180085	179881.53	91.55

Table A.2733: *acin7*: transRRGA+RS – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179829	179704.6	71.93	179826	179702.53	77.87	179870	179690.33	85.8	179902	179701.8	104.39
		2op	179941	179746.33	90.43	179816	179665.9	72.95	179828	179681.53	75.91	179857	179691.23	94.94
	50	rnd	179846	179713.4	89.41	179945	179683.57	104.52	179870	179695.37	73.49	179901	179704.23	101.86
51	20	rnd	179877	179714.83	90.48	179960	179704.43	101.84	179830	179686.77	92.03	179914	179720.1	92.48
		2op	179882	179739.83	90.68	180028	179783.43	83.87	179858	179685.27	85.87	179843	179691.47	98.26
	50	rnd	179924	179754	89.52	179912	179752.03	69.61	179850	179653.8	94.01	179893	179732	77.84
	20	rnd	179934	179731	92.15	179964	179749.5	100.69	179880	179701.5	92.5	179904	179696.47	97.99
		2op	180000	179758.73	82.93	179861	179745.57	72.74	179885	179717.23	70.24	179936	179703.53	104.6

Table A.2734: *acin7*: basicRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	179936	179824.6	61.77	179847	179712.97	86.17	179927	179737	94.54	179902	179701.43	83.22
		2op	180017	179876.77	75.79	179966	179749.93	93.27	179887	179720.1	99.24	179979	179711.03	122.07
	50	rnd	179942	179789.73	95.45	179867	179736.33	73.38	179876	179705.9	71.55	179909	179731.97	72.98
51	20	rnd	179967	179807.57	101.59	179918	179724.03	90.3	179933	179739.17	81.94	179948	179723.8	101.16
		2op	179947	179815.87	80.17	179873	179726.6	68.92	179926	179711.13	86.52	179804	179709.77	69.26
	50	rnd	179973	179849.8	76.85	179915	179747.97	89.4	179916	179733.8	76.85	179909	179730.9	81.78
	20	rnd	179970	179824.83	80.35	179868	179733.1	84.69	179842	179703.77	68.39	179818	179700.93	75.65
		2op	180033	179858.07	96.68	179971	179752.77	88.9	179884	179726.27	90.37	179926	179705.7	104.54

Table A.2735: *acin7*: transRRGA+IM – Suspected Optimal is 180966

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343127	342649.87	414.04	343022	342485.87	397.29	342960	342118.17	614.82	342970	342254	558.91
		2op	343103	342625.2	339.88	343059	342502.93	401.92	343121	342297.23	645.82	342942	342252.6	494.49
	50	rnd	343157	342567.97	452.33	343071	342397.1	603.75	343060	342415.17	468.38	343018	342312.83	405.53
51	20	rnd	343098	342462.83	519.54	343075	342441.27	493.81	343084	342282.73	572.09	343028	342407.83	435.13
		2op	343087	342643.37	416.05	343134	342634.67	407.4	343194	342429.57	538.54	343205	342240.37	617.9
	50	rnd	343123	342693.83	338.61	343138	342694.53	349.65	343145	342470.33	518.19	343270	342414.63	724.91
	20	rnd	343122	342605.53	616.13	343135	342692.53	416.16	343032	342542.07	360.49	343060	342238.23	528.2
		2op	343162	342727	357.2	343156	342627.83	503.44	343038	342462.57	439.52	343022	342330.13	570.24

Table A.2736: *acin9*: basicRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343276	342980.73	273.14	343255	342906.6	345.84	343180	342610.13	348.39	343170	342604.4	450.37
		2op	343273	342887.63	325.41	343201	342787.87	332.41	343199	342802.8	389.39	343238	342609.93	456.52
	50	rnd	343207	342912.47	245.16	343203	342783.37	375.71	343213	342726.33	469.79	343174	342543.03	381.41
51	20	rnd	343290	342843.97	335.88	343256	342908.1	270.04	343205	342878.6	376.81	343192	342425.93	540.79
		2op	343186	342927.87	272.14	343160	342831.03	271.25	343308	342887.93	305.41	343167	342667.2	405.37
	50	rnd	343267	342969.27	246.49	343254	342983.37	236.72	343212	342856.23	363.72	343198	342699.1	347.4
	20	rnd	343198	342887.83	222.5	343269	342869.07	315.77	343239	342877.93	313.62	343191	342629.23	592.52
		2op	343217	342899.6	268.69	343225	342944.33	263.34	343172	342842.37	287.03	343177	342644.37	425.97

Table A.2737: *acin9*: transRRGA – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343043	342565	342.35	343048	342373.2	551.3	343167	342376.63	464.15	343114	342169.47	594.07
		2op	343173	342530.5	545.42	343125	342486.57	459.21	343006	342342.77	574.67	343157	342314.5	545.11
	50	rnd	343084	342521.4	449.61	343082	342318.2	484.8	343100	342234.6	597.61	343022	342261.3	607.48
51	20	rnd	343096	342528.7	511.84	343057	342501.07	604.44	343051	342342.43	435.38	343077	342334.17	407.78
		2op	343087	342611.8	380.93	343082	342583.3	433.46	343070	342552.9	405.59	343120	342315.33	562.81
	50	rnd	343139	342557.5	555.05	343085	342571.13	375.1	343081	342319.03	482.49	343013	342288.1	530.95
	20	rnd	343112	342576.93	428.75	343068	342587.33	379.11	343134	342496.2	470.57	343045	342410.33	544.98
		2op	343147	342677.07	388.52	343135	342731.47	332.62	343096	342293.5	533.33	343079	342429.47	505.07

Table A.2738: *acin9*: basicRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343252	342916.1	326.6	343285	342728.43	353.84	343247	342786.73	420.79	343176	342523.17	570.45
		2op	343270	342920.8	281.67	343304	342839.17	351.19	343255	342751.43	393.67	343122	342376.13	570.44
	50	rnd	343201	342901.33	264.35	343232	342856.67	340.43	343273	342809.93	428.98	343160	342474.07	579.59
51	20	rnd	343245	342800.73	325.62	343196	342743.3	355.22	343141	342773.63	468.27	343216	342762.3	322.27
		2op	343216	342851	332.93	343191	342845.63	242.83	343258	342793.83	381.8	343257	342855.47	427.7
	50	rnd	343235	342896.1	302.91	343305	342896.13	328.94	343238	342650.8	476.67	343227	342617.6	531.35
	20	rnd	343285	342975.53	212.38	343206	342952.03	216.89	343211	342941.27	276.3	343290	342622.2	406.76
		2op	343231	342939.1	338.28	343241	342785.07	424.62	343256	342947.97	312.13	343224	342773.93	412.56

Table A.2739: *acin9*: transRRGA+RS – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343164	342750.87	414.39	343123	342655.1	362.11	342972	342282.23	460.18	343038	342259.77	567.66
		2op	343084	342704.1	341.35	343157	342581.57	498.44	343002	342230.5	611.98	342948	342355.23	522
	50	rnd	343035	342605.9	407.02	343157	342568.13	448.54	343124	342251.63	554.79	343021	342205.6	537.51
51	20	rnd	343160	342696.9	429.4	343105	342488.23	601.62	342929	342262.97	429.53	343078	342101.3	657.39
		2op	343131	342749.17	381.53	343060	342714.27	390.04	343080	342277.53	573.33	343108	342274.17	609.54
	50	rnd	343138	342802.63	314.3	343137	342879.4	228.78	342916	341992.63	659.84	342972	342221.57	500.45
	20	rnd	343090	342732.93	315.49	343169	342701.73	407.99	342990	342317.47	475.35	343018	342080.03	562.72
		2op	343149	342724.33	356.43	343104	342819.9	270.01	342984	342127.37	529.33	343021	342074.8	723.85

Table A.2740: *acin9*: basicRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	343314	342952.67	258.01	343052	342150.87	575.99	343138	342407.07	520.06	343115	342342.1	617.51
		2op	343251	342911.9	373.02	343075	342195.2	576.63	343102	342276.27	621.57	343027	342283.8	579.8
	50	rnd	343136	342809.33	321.53	343071	342263.63	533.51	343083	342138.03	485.12	343154	342385.63	551.17
51	20	rnd	343236	342977.67	257.34	343075	342274.13	563.94	343072	342399.93	518.12	343096	342334.73	484.35
		2op	343176	342987.7	184.44	342984	342241.97	593.54	343088	342169.67	611.17	343174	342280.97	590.28
	50	rnd	343258	342939.2	296.63	343075	342221.33	528.71	343059	342235.07	565.46	343070	342432.97	562.22
	20	rnd	343203	342960.37	200.61	343059	342289.53	635.02	343099	342203.77	583.33	343107	342170.97	653.6
		2op	343295	342890.37	258.69	343213	342321.3	588.19	343129	342363.67	439.96	342989	342297.57	495

Table A.2741: *acin9*: transRRGA+IM – Suspected Optimal is 344107

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226735	225699.1	582	226955	225756.7	602.39	226718	225669.23	767.44	226742	225660.6	767.27
		2op	227011	225975.4	557.47	226724	225847.77	630.27	227216	226008.93	589.55	226938	225956.5	658.9
	50	rnd	226530	225548.8	799.09	226939	225717.5	615.37	227023	225643.7	734.35	227187	225947.63	699.44
51	20	2op	227231	225927.93	601.19	227063	225994.7	542.94	226820	225810.73	679.24	227056	225883.13	551.75
		rnd	226925	225549.3	653.97	226686	225711.77	591.41	226819	225736.43	574.59	226764	225880.47	500.4
	50	2op	227487	226243.9	413.57	227202	226008.77	613.49	226959	225917.57	689.89	227018	226067.23	606
	20	rnd	226901	225736.93	757.26	226797	225941.5	493.9	227158	225649.07	778.47	227132	225849.27	665.48
		2op	227109	226126.8	492.72	227083	226315.77	442.52	227111	226208	470.41	226901	226014.4	615.52

Table A.2742: *bx842596_4*: basicRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	227306	225949.7	743.65	226987	225907.93	700.71	227064	225935.9	690.05	227417	225886.43	627.59
		2op	227060	226379.77	460.84	227107	226195.1	544.77	227226	226291.73	504.82	227026	226339.23	467.75
	50	rnd	227332	225816.5	645.91	227571	225863.37	562.72	226833	225797.03	624.2	227337	226114.57	648.28
51	20	2op	227046	226256.63	529.88	227314	226369.87	509.99	227168	226442.93	441.03	227265	226207.17	644.48
		rnd	226941	226168.03	437.81	227481	226200.83	530.71	226868	225831.13	644.89	227057	225773.03	633.58
	50	2op	227190	226436.33	501.59	227204	226455.9	395.29	227040	226470.53	394.45	227400	226481.9	443.32
	20	rnd	226941	225862.97	537.83	227128	226187.33	623.98	226906	225915.6	549.93	227088	225908.1	772.44
		2op	227107	226030.2	538.8	227168	226316.37	454.59	227098	226275.73	485.12	227507	226431.17	445.35

Table A.2743: *bx842596_4*: transRRGA – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226966	225645.5	747.25	226371	225546.87	638.44	226882	225656.33	583.4	226865	225553.27	660.28
		2op	227034	225906.43	597.55	227123	226027.37	623.03	226932	225998.37	545.72	227135	226034.03	540.71
	50	rnd	227020	225603.3	662.99	226873	225676.93	683.15	226834	225673.83	707.44	227270	225672.3	739.6
51	20	2op	227037	225903.83	541.54	226947	225937.13	629.12	226970	225887.97	499.53	226942	225937	716.69
		rnd	227027	225878.03	639.75	226997	225826.97	580.57	226811	225716.03	764.62	226728	225757.33	574.84
	50	2op	227101	225951.73	697.26	227239	226111.67	664.03	227096	226025.47	555.84	227124	225925.07	621.78
	20	rnd	226749	225734.2	605.02	227362	225873.1	603.14	226773	225738.9	595.25	226823	225832.87	579.88
		2op	226815	226081.73	462.51	227402	226156.27	581.91	226866	225921.07	552.28	226996	225737.53	655.2

Table A.2744: *bx842596_4*: basicRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226817	226044.37	618.4	227064	225988.9	608.21	227321	226094.07	593.44	226863	225979.33	483.44
		2op	226826	226057.73	460.8	227174	226109.13	593.11	227037	226286.43	415.73	227348	226269.83	508.17
	50	rnd	227185	225859.8	692.99	226964	225828.47	793.13	227492	225901.93	814.99	227245	225767.8	729.69
51	20	rnd	227268	226296.2	492.39	227267	226369.83	519.63	227283	226249.73	531.05	227001	226198.83	448.15
		2op	226995	225939.33	655.85	226938	226126.2	638.74	227316	225877.77	644.71	226921	225545.67	742.17
	50	rnd	227121	226311.53	388.85	227074	226368	348.72	227119	226129.7	671.38	227406	226304.43	492.52
	20	rnd	227188	225894.53	802.82	227309	226371.9	418.76	227057	225812.33	636.58	227163	225991.33	685
		2op	227055	226089.37	559.98	227230	226309.43	611.58	227007	226134.87	505.01	227151	226321.33	489.58

Table A.2745: *bx842596_4*: transRRGA+RS – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226889	225837.77	624.48	226914	225276	935.79	226735	225402.57	663.34	226715	225084.17	1154.26
		2op	227118	226310.07	355.16	226671	225449.4	656.73	226512	225437.23	636.05	226485	225372.93	727.91
	50	rnd	226635	225698.4	574.05	226944	225389.7	699.67	226551	225250.03	764.32	226837	225365.87	689.77
51	20	rnd	227003	226153.4	543	226680	225073.13	1001.11	226288	225327.07	688.94	226648	225117.5	987.66
		2op	227180	226006.17	574.93	226688	225080.47	953.62	227021	225457.8	796.03	226835	225303.77	743.26
	50	rnd	227055	226314.4	435.56	226823	225304.53	775.75	226708	225431.33	723.17	227072	225525.93	770.69
	20	rnd	227271	226132.13	519.89	226894	225174.13	983.83	226602	225423.67	661.44	226931	225403.57	800.58
		2op	226901	226240.97	327.01	226808	225314.43	738.16	226580	225219.2	622.77	226663	225388.57	749.06

Table A.2746: *bx842596_4*: basicRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	226722	226074.07	507.29	226567	225312.73	901.37	226661	225328.53	836.7	226841	225421.73	700.94
		2op	227284	226255.5	514.05	227275	225677.57	718.89	226538	225279.1	759.38	226509	225426.07	747.93
	50	rnd	227396	225989.1	631.93	226742	225753.4	514.23	226810	225600.37	749.96	226580	225169	880.84
51	20	rnd	227259	226446.9	468.53	227092	225668.13	726.8	226918	225163.3	806.52	226063	225064.5	679.23
		2op	227245	226029.4	586.59	226971	225384.9	851.91	226746	225351.17	849.11	226635	225095.17	1005.67
	50	rnd	226907	226293.4	362.29	226462	225550.43	656.77	226497	225390.13	821	226765	225546.6	606.46
	20	rnd	227521	226158.47	648.17	226956	225823.83	706.23	227590	225414.27	822.59	226572	225212.47	820.86
		2op	227192	226402.57	389.41	226992	225867.03	675.74	226416	225168.47	712.67	227297	225534.37	828.75

Table A.2747: *bx842596_4*: transRRGA+IM – Suspected Optimal is 227920

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441999	440196.57	1117.15	442215	440213.77	895.63	442726	440303.4	994.63	442017	440195.73	1133.22
		2op	441696	439660.3	923.66	441557	439885.97	952.78	441510	439875.2	963.1	442395	440315.5	1277.13
	50	rnd	441693	440090.9	828.82	441410	439736.43	1139.83	442093	440266.27	947.27	442183	440277.4	1141.01
51	20	2op	442273	439812.27	1021.6	441971	439522.5	1392.65	441629	439724.27	998.77	442630	440237.3	1105.68
		rnd	441678	439887.53	1157.35	442571	439854.03	978.64	443280	440318.7	1308.94	441857	440328.73	1070.96
	50	2op	441347	439394.1	940.55	440950	439481.17	822.58	441238	439694.7	838.65	441915	440386.03	825.18
	20	rnd	442095	440214.83	1160.18	442273	440138.03	955.87	443080	440289.83	1146.99	442577	440483.83	769.7
		2op	441655	439466.57	1122.24	442635	439710.2	901.9	441703	439925.77	933.67	441291	439890.9	805.17

Table A.2748: *bx842596_7*: basicRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441680	439496.6	1187.19	441125	439463.1	890.8	440991	439361.5	1040.35	442303	440073.77	1450.72
		2op	441921	439952.57	1022.57	442524	440417.9	1032.58	442401	440596.6	980.58	442239	440924.77	858.63
	50	rnd	442903	439995.17	1272.48	440912	439333.43	944.63	441183	439381.33	1167.91	441458	439770.73	946.71
51	20	2op	441149	439982.13	682.79	441876	440195.27	970.89	441497	440181.03	792.88	442837	440941.93	956.46
		rnd	441278	439177.9	1191.55	441913	439454.53	1070.34	441358	439094.8	902.53	441286	439412.57	944.57
	50	2op	442225	439792.6	1069.1	442055	440211.4	974.55	441931	440522.6	1022.01	442222	440811.43	990.2
	20	rnd	441176	439318.4	1011.49	442548	440009.2	1052.53	441507	439557.23	1122.54	440883	439362.43	772.46
		2op	441225	439477.9	809.48	440671	439639.1	727.83	441852	440144.33	900.15	441942	440494.37	887.14

Table A.2749: *bx842596_7*: transRRGA – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441439	440091.83	780.33	442347	440320.87	1264.27	441963	440002.67	1083	441979	440230.27	922.3
		2op	441900	439477.1	1237.8	441893	439818.2	1073.84	442099	440264.63	1039.65	442206	440521.83	865.45
	50	rnd	441973	439906.93	776.98	442480	439791.6	1176.72	442431	440281.57	973.82	442429	439979.4	1309.2
51	20	2op	441568	439642.13	1097.86	440972	439408.4	1045.25	441755	439884.9	1014.78	442065	440115.67	927.24
		rnd	442427	440015.87	1177.89	442412	440489.07	1070.34	442006	439912.4	1040.89	441856	440305.97	942.87
	50	2op	441219	439514.03	961.56	440948	439438.03	887.47	442278	440155.93	909.04	442544	440207.07	1323.81
	20	rnd	442248	440200.43	1111.43	441957	440013.13	1121.6	441697	440175.6	961.81	441892	440289.17	1066.75
		2op	441672	439414.87	936.5	441348	439474.17	826.67	441321	439624.43	796.87	442964	440064.6	1085.51

Table A.2750: *bx842596_7*: basicRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441987	439710.87	1202.97	441258	439474.77	1260.09	442549	439603.07	1386.19	442114	440001.77	1219.27
		2op	443197	440095.77	1089.1	443002	440256.33	1235.11	441639	440452.2	752.59	442207	440652.9	961.35
	50	rnd	441798	439307.57	1207.68	441799	439525.1	976.17	442229	439623.03	1184.41	441331	439887.63	861.29
51	20	rnd	441212	439696.97	913.39	441792	440148.37	921.86	441820	440340.63	850.48	441783	440570.03	885.54
		2op	441417	439777.63	978.33	441353	439496.57	1272.24	441541	439542.93	1185.92	441704	439562.37	1403.2
	50	rnd	441564	439727.23	749.54	441488	439911.67	1008.18	443195	440495.27	1110.13	442183	440844.83	844.27
	20	rnd	442246	439866.7	1158.21	441668	440130.7	1055.36	441285	439418.03	1195.01	441618	439559.07	970.18
		2op	442248	439948.2	960.78	441659	439942.67	866.17	442467	440209.87	927.56	443018	440624.77	1089.78

Table A.2751: *bx842596_7*: transRRGA+RS – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441938	439911.3	1081.43	441811	438984.43	1138.02	441368	438627.6	1200.83	441708	438664.43	1355.53
		2op	440671	439569.33	561.21	440862	438595.63	1397.13	441025	438933.97	1173.04	440770	438802.33	1109.99
	50	rnd	441989	440157.77	985.74	442648	438935.23	1385.6	440303	438694.93	982.25	440927	438834.1	1054.66
51	20	rnd	441009	439054.53	839.32	440525	438300.5	1212.9	441786	438868.87	1087.14	440570	438493.03	1326.7
		2op	441557	439806.97	1269.17	441820	439547.07	1541.98	441139	439181.07	989.96	440984	438806.57	1075.15
	50	rnd	440362	439037.73	644.65	440362	438652.83	1096.12	440559	438553.87	1147.71	441103	438877.5	1213.15
	20	rnd	441796	440121.13	1135.96	441060	438711.13	1442.66	440810	439179.9	1124.91	440545	438820.87	1224.63
		2op	440231	439104.13	606.22	441295	438680.5	1645.54	440932	438730.23	1199.27	441702	438601.37	1192.12

Table A.2752: *bx842596_7*: basicRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	441571	439602.33	1208.45	441226	438701.57	1204.29	441261	439015.73	1163.9	440699	439027.43	979.64
		2op	441292	439530.2	811.11	442035	439340.73	1316.7	441974	438761.47	1341.36	440773	438949.87	1197.18
	50	rnd	441976	439580.4	1026.67	440659	439000.47	1134.13	441027	438815.57	1422.84	440903	438423.1	1537.08
51	20	rnd	440923	439595.77	661.25	441536	439845.1	918.62	441480	439319.13	1271.29	441001	438831.87	1367.01
		2op	442452	439973.33	1094.71	440494	438920.63	1104.06	441752	438989.57	1150.69	440713	439312.4	943.47
	50	rnd	439912	438898.07	617.39	440900	438897.23	1037.83	440916	438824.97	1240.31	441377	438812.07	1185.82
	20	rnd	441900	439560.17	1184.06	442289	440109.17	1161.4	441703	439128.87	1168.34	440753	438980.97	998.4
		2op	440814	439503.1	659.02	442188	440130.2	1074.05	441044	438968.43	1330.22	440815	438792.7	1259.69

Table A.2753: *bx842596_7*: transRRGA+IM – Suspected Optimal is 445422

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115989	115377.4	353.92	116512	115379	439.46	116334	115275.9	489.21	115798	115180.1	381.4
		2op	116226	115612.17	351.51	116385	115595.4	350.6	116326	115504.63	509.66	116313	115675.17	342.98
	50	rnd	116218	115339.53	445.42	116282	115247.97	512.98	116300	115300.1	571.95	116383	115478	424.45
51	20	2op	116127	115541.9	317.42	116267	115678	332.56	116053	115454.37	400.21	116252	115522.3	324.14
		rnd	116264	115295.5	526.71	116213	115347.43	436.21	115906	115299.63	420.44	116435	115467.7	507.15
	50	2op	116115	115686.63	300.53	116356	115742.83	375.09	116150	115618.87	331.67	116305	115699.97	326.08
	20	rnd	116051	115319.07	407.91	116314	115438.07	384.23	116347	115333.73	454.09	116370	115281.43	523.58
		2op	116317	115621.33	426.37	116485	115701.7	347.27	116396	115660.67	360.31	116151	115600.87	344.3

Table A.2754: *j02459_7*: basicRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115847	115188.17	432.87	116031	115120.9	443.35	116022	115165.2	508.02	116385	115347.87	549.49
		2op	116400	115761.47	356.54	116491	115712.97	364.24	116261	115440.9	342.63	116362	115770.6	354.26
	50	rnd	116082	115253.13	489.21	116255	115542.77	472.43	116225	115181.8	561.98	116137	115209.87	410.31
51	20	2op	116212	115493.1	329.96	116340	115612.57	403.19	116228	115562	328.85	116295	115762.2	266.75
		rnd	115893	115109.77	506.32	116373	115514.8	405.73	115957	115175.83	474.02	115937	115280.17	408.32
	50	2op	116173	115660.6	293.36	116414	115850.67	249.69	116325	115670.57	332.74	116278	115626.47	296.51
	20	rnd	116164	115130.73	542.21	116516	115672.4	475.65	116084	115121.17	443.77	115846	115085.03	441.16
		2op	116445	115727.53	349.67	116483	115987.07	343.74	116394	115738.9	331.74	116290	115523.57	343.3

Table A.2755: *j02459_7*: transRRGA – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	116247	115354.7	463.64	116126	115400.57	396.36	116000	115364.4	361.06	116160	115395	369.31
		2op	116060	115443.8	310.96	116123	115479.93	425.12	116286	115499.4	423.51	116246	115458.73	380.34
	50	rnd	115955	115286	408.92	116480	115261.73	536.6	116081	115392	389.53	116141	115338.87	461.66
51	20	2op	116182	115612.67	335.49	116152	115499.73	386.31	116425	115406.33	447.5	116185	115542.77	437.18
		rnd	116375	115407.1	423.42	116014	115349.93	387.29	116137	115414.17	317.09	116180	115397.83	523.08
	50	2op	116224	115692.03	243.2	116174	115734.1	281.84	116456	115685.3	353.4	116069	115636.77	230.4
	20	rnd	116250	115263.63	559.38	115979	115359.83	311.8	116318	115385.87	450.31	116268	115428.6	480.95
		2op	116334	115613.83	309.79	116253	115751.73	271.46	116379	115695.43	275.87	116354	115605.2	389.6

Table A.2756: *j02459_7*: basicRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	115961	115251.93	467.26	116014	115062.33	554.45	116243	115203.87	446.79	116316	115389.3	437.1
		2op	116305	115619.13	354.4	116408	115557.1	470.04	116159	115556.93	318.32	116267	115627.27	353.89
	50	rnd	116064	115351.17	422.01	115937	115190.33	448.58	116119	115076.63	482.19	116148	115177.57	549.7
51	20	2op	116220	115590.37	350.56	116057	115534.97	363.14	116305	115586.7	404.86	116237	115652.8	372.49
		rnd	116155	115325.87	492.7	116033	115459.27	433.57	116306	115273.73	611.34	116122	115101.7	416.03
	50	2op	116423	115713.67	370.37	116482	115864.53	331.75	116113	115532.77	299.45	116238	115637.5	323.06
	20	rnd	116188	115256.63	504.92	116551	115676.93	422.18	116143	115273.2	373.29	116413	115149.87	472.73
		2op	116402	115673.27	333.69	116498	115964.5	302.17	116229	115683.5	315.02	116061	115669.97	272.25

Table A.2757: *j02459_7*: transRRGA+RS – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	116485	115465.8	407.46	115758	114621.67	498.63	115660	114803.03	523.69	115776	114926.13	480.14
		2op	116483	115741.5	339.36	115624	114830.77	454.89	115783	115070.5	435.16	116037	114900.87	568.81
	50	rnd	116070	115302.73	400.38	115630	114642.33	555.28	115986	114851.3	489.9	115857	114659.77	512.84
51	20	2op	116085	115681.83	291.63	115838	114975.3	534.17	115770	114911.1	355.42	116154	114888.17	661.9
		rnd	116113	115326.43	394.16	115778	114836.87	483.09	115980	114716.77	488.92	115709	115012.2	587.91
	50	2op	116089	115721.17	219.3	116039	114859.93	500.63	116276	115186.27	501.77	115814	114933.47	436.22
	20	rnd	116175	115399.87	536.11	115705	114913.3	430.37	116167	115074.97	426.52	116009	114857.87	587.37
		2op	116176	115857.7	217.74	116105	114929.5	541.19	115846	114950.9	548.4	115957	114997.03	536.42

Table A.2758: *j02459_7*: basicRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	116122	115109.1	454.99	116298	115179.53	427.86	115974	114830.07	591.94	115545	114915.3	389.57
		2op	116502	115757.77	297.81	115833	115092.47	494.88	115810	114892.27	493.65	115444	114709.57	384.3
	50	rnd	116051	115201.73	390.46	116273	115176.8	488.82	115920	114723.4	578.89	116019	114892.53	585.56
51	20	2op	116236	115750.8	285.5	116191	115357.17	508.99	115911	114991.43	551.84	115757	115010.53	433.27
		rnd	116075	115404.23	395.19	116092	115132.2	441.3	115816	115078.73	403.56	115767	114889.4	513.86
	50	2op	116460	115746.83	279.08	116187	115181.83	497.55	116209	115153.63	633.26	116085	115091.8	559.26
	20	rnd	116141	115389.13	344.09	116418	115434.93	563.9	116268	115198.67	490.95	115642	114915.5	445.37
		2op	116471	115949.13	306.61	116401	115831.3	285.34	116314	115139.97	632.93	116109	115125.53	510.08

Table A.2759: *j02459_7*: transRRGA+IM – Suspected Optimal is 116700

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38595	38303.23	220.72	38542	38284.97	199.61	38536	38288.6	158.99	38650	38189.6	196.46
		2op	38529	38350.23	119.29	38647	38328.83	141.49	38569	38326.93	124.16	38505	38254.57	170.93
	50	rnd	38685	38344.53	160.13	38668	38312.87	193.23	38605	38262.97	214.08	38551	38270.97	196.93
51	20	rnd	38541	38355.3	112.31	38493	38292.13	133.8	38587	38349.87	127.08	38561	38285.97	157.51
		2op	38678	38391.87	184.63	38608	38360.27	175.42	38615	38344.37	165.85	38650	38264.63	223.5
	50	rnd	38487	38361.8	69.62	38437	38360.13	71.03	38550	38352.83	101.76	38575	38367.27	138.49
	20	rnd	38693	38383.8	156.77	38635	38410.77	166.01	38638	38327.47	156.04	38643	38419.27	127.28
		2op	38531	38367.23	65.21	38554	38379.23	74.47	38512	38314.27	132.08	38577	38353.9	153.61

Table A.2760: *m15421_5*: basicRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38650	38381	128.51	38683	38359.17	126.96	38586	38306.6	160.09	38637	38346.93	145.77
		2op	38555	38375	134.94	38573	38425.6	86.01	38579	38373.5	120.77	38565	38357.33	165.42
	50	rnd	38585	38357.7	151	38657	38431	143.86	38660	38362.3	150.15	38662	38310.53	187.92
51	20	rnd	38469	38331.6	108.44	38596	38446.8	82.43	38550	38370.73	124.71	38552	38380.77	126.62
		2op	38572	38271.1	193.79	38648	38424.73	118.52	38642	38423.3	163.07	38546	38370.33	141.98
	50	rnd	38557	38391.57	81.97	38557	38426.43	40.38	38566	38422.67	103.05	38557	38426.3	97.98
	20	rnd	38579	38335.13	161.93	38634	38405.97	154.94	38667	38425.07	150.7	38694	38347.53	160.19
		2op	38557	38391.53	73.44	38592	38441.63	53.39	38526	38407.73	65.59	38557	38408.67	81.17

Table A.2761: *m15421_5*: transRRGA – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38624	38362.33	142.58	38691	38324	186.43	38602	38278.17	220.46	38627	38262.8	218.01
		2op	38557	38336.7	146.11	38580	38346.33	136.19	38572	38329.77	129.64	38579	38246.77	176.92
	50	rnd	38549	38295.87	203.91	38667	38333.63	163.65	38679	38291	181.33	38595	38282.77	222.61
51	20	rnd	38554	38299	122.83	38490	38291.13	123.13	38448	38281.23	136.63	38505	38234.77	169.89
		2op	38652	38379.3	154.81	38559	38361.37	155.81	38589	38308.57	157.44	38659	38400.97	135.61
	50	rnd	38466	38345.47	88.34	38573	38368.67	80.6	38484	38367.77	81.34	38526	38291.2	163.07
	20	rnd	38646	38405.63	140.6	38628	38364.23	165.87	38608	38316.23	168.9	38604	38307.1	165.97
		2op	38475	38369.43	56.74	38556	38356.57	90.84	38534	38343.27	125.94	38536	38309.53	161.09

Table A.2762: *m15421_5*: basicRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38662	38340.3	178.39	38637	38420.37	158.58	38662	38284.4	196.62	38635	38322.73	200.43
		2op	38580	38333.9	155.04	38569	38405.67	121.72	38624	38366.17	124.99	38619	38328.8	150.84
	50	rnd	38569	38264.57	182.51	38664	38441.33	130.12	38598	38369.3	146.26	38681	38320.17	182.68
51	20	rnd	38538	38362.67	112	38564	38432.13	87.16	38584	38336.8	134.48	38619	38390.93	145.17
		2op	38612	38326.13	180.13	38586	38424.33	117.55	38594	38352.23	189.61	38650	38241.3	270.62
	50	rnd	38499	38395.37	73.86	38536	38442.5	34.86	38589	38414.43	79.51	38562	38400.47	116.16
	20	rnd	38572	38334.33	143.74	38666	38410.43	131.38	38600	38369.93	126.2	38566	38296.8	156.48
		2op	38566	38398.83	87.02	38578	38449.27	38.39	38586	38412.8	86.46	38589	38361.7	149.9

Table A.2763: *m15421_5*: transRRGA+RS – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38647	38393.37	166.89	38542	38185.37	178.69	38640	38179.37	274.77	38590	38251.6	241.05
		2op	38505	38403.63	38.82	38516	38185.4	206.01	38413	38100	181	38603	38206.1	214.41
	50	rnd	38690	38386.47	150.77	38528	38274.77	199.81	38571	38191.47	241.98	38642	38240.3	210.89
51	20	rnd	38504	38384.07	61.07	38548	38122	219.32	38475	38192.37	181.52	38622	38228.2	164.24
		2op	38641	38379.23	141.47	38718	38225.3	255.77	38626	38214.23	237.99	38564	38211.37	162.42
	50	rnd	38442	38419.63	15.22	38536	38196.93	218.02	38507	38175.27	238.77	38584	38187.87	214.57
	20	rnd	38663	38469.47	121.64	38672	38262.77	183.18	38597	38230.2	299.5	38546	38194.17	202.72
		2op	38442	38428.23	13.99	38506	38159.73	186.16	38646	38093.13	245.19	38462	38139.83	179.6

Table A.2764: *m15421_5*: basicRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	38690	38388.83	169.57	38560	38222.53	211.74	38506	38217.2	201.13	38629	38175.17	263.12
		2op	38538	38417.9	34.82	38524	38240.6	205.11	38536	38153.1	243.68	38677	38239.47	226.27
	50	rnd	38638	38393.47	172.91	38681	38333.1	177.44	38559	38276.97	195.16	38536	38233.53	182.48
51	20	rnd	38442	38403.37	42.53	38568	38271.93	197.05	38555	38201.63	176.73	38575	38135.07	248.76
		2op	38589	38325.97	163.55	38606	38239.07	233.28	38596	38278.63	139.62	38606	38232.77	248.01
	50	rnd	38442	38422.27	14.72	38638	38250.03	208.92	38677	38262.57	180.85	38538	38170.93	246.75
	20	rnd	38567	38346.97	178.75	38630	38364.17	200.28	38625	38244.6	198.63	38541	38202.73	259.55
		2op	38442	38430.13	12.49	38550	38388.3	126.76	38565	38213.1	218.4	38552	38152.37	232.52

Table A.2765: *m15421_5*: transRRGA+IM – Suspected Optimal is 38746

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47993	47639.47	197.53	48046	47673.23	209.21	47948	47687.57	183.05	47940	47594.73	195.05
		2op	47814	47692.23	82.89	47803	47685.03	95	47917	47644.8	119.75	47960	47538.83	255.73
	50	rnd	47916	47659.83	178.42	47956	47586.4	245.67	47977	47647.1	209.18	48022	47640.97	206.65
51	20	rnd	48032	47635.43	252.75	48046	47683.4	199.86	47989	47679.27	239.48	47977	47668	199.76
		2op	47830	47679.17	114.32	47758	47688.67	76.99	47848	47701.97	81.15	47814	47642.8	117.05
	50	rnd	48032	47638.7	190.86	47923	47626.8	188.34	47978	47662.67	194.96	48016	47563.7	227.58
		2op	47758	47644	132.23	47776	47701.93	82.94	47830	47708.07	94.19	47836	47661.3	135.47

Table A.2766: *m15421_6*: basicRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47944	47616.87	234.22	47961	47624.23	196.9	47976	47663.87	203.98	47977	47700.33	186.63
		2op	47821	47622.8	131.2	47830	47683	110.32	47848	47632.87	153.64	47819	47644.2	122.66
	50	rnd	48034	47654.3	260.21	48050	47647.13	212.16	48030	47606.97	229.17	48027	47658.83	190.67
51	20	rnd	47862	47620.3	165.61	47830	47665.27	137.77	47870	47678.4	144.13	47794	47643.67	118.59
		2op	47969	47598.97	232.72	48052	47638	275.14	47972	47647.63	168.53	48041	47612.43	203.07
	50	rnd	47830	47651.67	177.02	47830	47704.93	133.02	47830	47678.83	173.83	47830	47667.23	166.12
		2op	47978	47661.03	185.08	48050	47713.63	199.58	48050	47605.3	234.1	47960	47597.47	245.27
		2op	47830	47616.63	190.4	47830	47727.53	93.52	47830	47657.2	157.81	47830	47640.97	160.06

Table A.2767: *m15421_6*: transRRGA – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47903	47651.23	143.74	47958	47699.43	198.17	47995	47694.3	191.47	47971	47607.23	190.6
		2op	47758	47640.83	160.81	47830	47658.23	118.42	47977	47640.6	142.18	47956	47642.83	188.39
	50	rnd	48043	47623.77	202.38	47943	47625.37	209.62	47976	47710.33	180.52	47986	47697.2	189.78
51	20	rnd	47821	47643.27	136.62	47830	47670.47	130.22	47960	47667.27	153.46	47819	47606.2	170.93
		2op	48032	47660.4	204.75	47978	47662.47	177.73	47957	47671.47	202.73	47952	47663.5	165.16
	50	rnd	47760	47638.83	153.73	47758	47719.9	71.01	47758	47651.47	130.7	47758	47601.37	173.04
		2op	47977	47576.8	231.26	47957	47614.47	241.54	48030	47688.2	188.75	47927	47699.03	149.82
		2op	47821	47632.63	144.28	47758	47693.1	71.95	47814	47696.13	81.12	47830	47667.7	125.23

Table A.2768: *m15421_6*: basicRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48050	47670.17	187.13	48052	47715.17	223.75	47957	47648.3	259.52	47915	47694.93	173.63
		2op	47830	47684.43	122.81	47944	47675.67	139.35	47830	47623.33	185.72	47830	47629.67	125.88
	50	rnd	47910	47571.03	258	48050	47746.23	169.75	48050	47653.33	244.17	48028	47654.63	173.2
51	20	2op	47830	47601.37	199.49	47830	47630.43	200.18	47830	47658.77	128.21	47830	47706.23	95.79
		rnd	47933	47573.63	247.13	48050	47670.27	187.5	47976	47667.43	251.68	47977	47632.2	181.88
	50	2op	47830	47666.73	172.17	47830	47754.43	80.69	47819	47695	93.58	47830	47625.33	171.49
	20	rnd	48043	47684.4	223.81	47897	47658.4	213.57	47954	47623.77	231.46	48039	47566.83	271.17
		2op	47805	47644.8	120.86	47830	47706.57	87.67	47830	47711.8	94.13	47814	47671.83	126.13

Table A.2769: *m15421_6*: transRRGA+RS – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48036	47608.8	247.94	48002	47479.67	228.85	47872	47531.1	223.24	47920	47562.37	216.34
		2op	47758	47659.5	129.8	47962	47553.73	234.3	47852	47573.73	209.42	47883	47471.87	214.76
	50	rnd	47964	47694.5	182.88	47977	47592.77	259.13	48032	47630.47	249.17	47975	47541.57	216.08
51	20	2op	47758	47699.67	102.76	47950	47538.97	244.62	47822	47513.17	183.37	47841	47526.37	241.08
		rnd	48025	47713.53	189.3	48036	47594.5	230.17	47941	47569.4	263.3	47757	47479.9	203.64
	50	2op	47758	47746.87	17.68	47916	47616.87	180.94	47827	47529.73	203.99	47830	47564.57	209.56
	20	rnd	48052	47722.07	161.79	48052	47675.63	196.32	47918	47604.23	197.92	47844	47530	221.78
		2op	47758	47754.33	7.46	47832	47580.07	231.12	47892	47501.87	251.16	47842	47519.23	240.11

Table A.2770: *m15421_6*: basicRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47961	47667.7	170.93	48048	47666.3	198.15	48048	47548.6	237.12	48023	47484.17	297.47
		2op	47830	47700	115.05	47949	47541.53	243.23	47959	47500.03	309.14	47922	47470.97	268.51
	50	rnd	48034	47689	221.39	47977	47661.7	218.12	47978	47603.33	244.49	47974	47649.87	262.22
51	20	2op	47830	47721.33	85.03	47926	47637.97	196.84	47805	47523.33	225.95	47852	47551.23	212.01
		rnd	47918	47537.83	262.81	48030	47615.27	196.08	47959	47556.7	208.44	47977	47621.83	212.43
	50	2op	47758	47750.9	8.92	47839	47596.03	220.67	47949	47596.67	195.28	47908	47583.3	205.79
	20	rnd	47875	47608.03	203.47	47937	47649.43	156.02	48030	47635.8	204.15	47975	47541.1	251.31
		2op	47758	47743.6	61.81	48052	47711.27	108.25	47922	47615.7	209.7	47977	47566.4	217.27

Table A.2771: *m15421_6*: transRRGA+IM – Suspected Optimal is 48052

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54963	54539.77	260.99	54979	54515.13	316.53	55068	54569.33	272.54	55057	54594.3	295.42
		2op	54912	54596.17	184.54	55130	54602.73	229.35	54990	54620.9	203.16	54966	54569.1	263.93
	50	rnd	55144	54613.1	295.09	54928	54521	271.54	54936	54534.93	313.24	55103	54547.53	277.68
51	20	rnd	54893	54589.43	158.09	54877	54654.33	188.77	54910	54561.97	251.18	54991	54632.33	196.73
		2op	54975	54567.2	316.63	54945	54553.73	287.65	55086	54583.5	267.59	54962	54621.1	274.11
	50	rnd	54938	54634.07	162.2	54949	54663.17	130.25	54875	54620.83	176.29	54956	54648.93	195.11
	20	rnd	54992	54639.03	220.36	55082	54603.27	251.38	55012	54563	272.39	54966	54609.17	231.56
		2op	54753	54590.3	131.11	54923	54665.2	113.03	54911	54672.43	156.57	55084	54684.2	217.84

Table A.2772: *m15421_7*: basicRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	54985	54505.27	301.2	55128	54525.77	322.39	54975	54541.77	299.27	54987	54552.37	298.95
		2op	54948	54678.9	145.92	55157	54761.37	131.45	54877	54633.03	143.62	54934	54679.83	139.36
	50	rnd	54939	54482.57	268.82	55161	54772.77	231.14	54967	54502.33	266.4	55166	54521.83	314.56
51	20	rnd	54971	54670.37	200.85	55021	54743.53	200.06	54931	54688.47	172.15	54913	54706.2	151.57
		2op	55025	54414	373.47	55169	54656.37	234.24	54986	54497.77	320.26	54974	54532.1	269.29
	50	rnd	54951	54673.2	126.04	55016	54746.7	97.02	55061	54720.87	140.41	54975	54714.7	158.73
	20	rnd	55121	54465.33	294.57	55155	54796.53	232.8	54986	54587.7	322.62	55108	54495.27	272.61
		2op	54935	54674.27	128.06	54953	54758.93	62.93	54921	54705.4	117.74	55129	54750.13	170.21

Table A.2773: *m15421_7*: transRRGA – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55098	54578.4	284.68	54991	54487.77	297.66	55002	54557.63	225.51	55068	54474.2	292.64
		2op	54875	54569.87	167.64	55090	54609.03	198.5	54970	54634.7	190.18	54885	54603.9	208.09
	50	rnd	54944	54624.07	303.96	54981	54536.07	348.98	55078	54560.9	252.05	55041	54539.73	247.26
51	20	rnd	54950	54557.17	249.14	54950	54614	170.84	55034	54705.8	148.23	55019	54593.07	264.88
		2op	54947	54555.23	236.22	54960	54526.3	306.9	55090	54594.33	230.18	54972	54570.1	220.84
	50	rnd	54935	54663.87	127.31	54904	54631.03	170.86	54928	54670.37	167.22	54917	54717.77	128.74
	20	rnd	55067	54640.57	228.1	55030	54590.1	355.16	54992	54580.37	274.79	55141	54654.33	239.7
		2op	54957	54643	112.24	54923	54632.37	119.84	54931	54644.07	169.86	54929	54690.43	157.58

Table A.2774: *m15421_7*: basicRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55146	54607.9	299.41	55107	54574.83	337.96	55061	54555	352.54	55122	54542.6	249.47
		2op	54930	54638.33	152.18	54926	54685	108.66	54930	54596.67	201.05	54905	54672.93	184.15
	50	rnd	54880	54502.8	299.6	55050	54627.53	261.27	55081	54562.57	322.19	55087	54521.13	326.63
51	20	rnd	54966	54638.63	183.94	54965	54734.87	119.63	55094	54719.57	216.78	55031	54690.23	144.21
		2op	55168	54548.93	286.84	54995	54644.23	207.5	55100	54484.73	311.87	54899	54470.7	256.01
	50	rnd	54950	54660.03	131.43	54966	54750.17	128.34	54974	54722	127.22	54967	54695.97	136.31
	20	rnd	54951	54567.8	221.83	55170	54783.73	240.04	55050	54565.03	282.49	55141	54638.8	276.59
		2op	54961	54705.23	127.92	55033	54765.13	114.39	54970	54692.83	141.21	54934	54759.4	115.29

Table A.2775: $m15421_7$: transRRGA+RS – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55168	54591.13	327.46	54910	54317.1	330.58	54881	54442.37	316.15	54873	54318.17	363.81
		2op	54745	54651.67	116.94	54938	54364.27	368.12	54857	54456.83	250.89	54929	54370.07	350.78
	50	rnd	55087	54678.03	209.87	54882	54389.5	316.87	54855	54319.5	340.88	54862	54363.1	324.64
51	20	rnd	54943	54692.97	114.09	54850	54443.67	298.85	54783	54299.73	299.73	54849	54441.23	303.25
		2op	55065	54574.7	254.8	54977	54409.03	315.86	55058	54399.97	354.5	54902	54415.47	325.23
	50	rnd	54757	54734.6	19.64	54848	54379.37	373.13	54794	54284.9	411.92	54952	54463.63	315.59
	20	rnd	55002	54647.07	227.93	54957	54356.63	311.32	55027	54355.73	328.69	54953	54363.83	380.47
		2op	54769	54743.9	14.65	55057	54528.43	230.52	54847	54423.57	311.51	54896	54372.3	303.55

Table A.2776: $m15421_7$: basicRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	55048	54589.87	296.28	55050	54452.53	308.34	54878	54430.2	293.57	55122	54406.4	277.94
		2op	54947	54728.13	79.68	55060	54596.7	305.87	54883	54462.17	319.99	55072	54432.53	304.82
	50	rnd	55135	54593.13	331.15	54964	54514.67	257.83	54906	54433.47	313.19	55074	54387.23	365.62
51	20	rnd	54868	54715.37	54.88	54997	54573.47	225.81	54976	54489.3	319.24	54945	54435.13	334
		2op	54978	54590.43	301.87	55123	54567.33	288.91	55079	54457.1	283.05	54870	54395	313.78
	50	rnd	54754	54745.03	11.22	54913	54485.9	217.15	55002	54482.07	334.62	54752	54366.1	302.57
	20	rnd	55168	54664.23	273.76	55132	54650.47	305.45	55019	54563.6	340.98	54940	54427.27	324.84
		2op	54754	54748.33	4.87	54978	54686.83	235.08	54853	54528.8	276.33	55095	54457.27	354.55

Table A.2777: $m15421_7$: transRRGA+IM – Suspected Optimal is 55171

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11218.47	117.35	11478	11300.6	107.21	11478	11272.33	129.28	11413	11245.6	149.29
		2op	11285	11094.73	92.84	11373	11246.27	81.51	11346	11148.3	125.41	11372	11216.43	111.46
	50	rnd	11394	11235.6	98.18	11478	11304.3	106.58	11478	11261.27	149.76	11411	11200.7	136.13
51	20	rnd	11346	11100.9	110.74	11411	11267.47	74.33	11346	11170.07	98.39	11394	11187.7	145.9
		2op	11411	11200.77	164.36	11478	11332.3	99.06	11478	11286.77	145.57	11478	11270.97	133.67
	50	rnd	11285	11056.33	72.46	11285	11124.67	48.01	11305	11187.7	92.53	11305	11116.93	51.38
	20	rnd	11411	11196.4	138.07	11478	11324.03	105.54	11478	11267	136.32	11478	11288.47	117.88
		2op	11195	11084.13	50.22	11373	11201.03	98.46	11305	11253.83	64.01	11305	11131.37	69.43

Table A.2778: $x60189_4$: basicRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11238.77	134.18	11478	11272.97	124.1	11413	11249.3	124.97	11478	11279.23	105.37
		2op	11305	11092.3	100.22	11394	11265.23	70.88	11478	11193.97	111.02	11411	11216	106.91
	50	rnd	11478	11236.77	175.32	11478	11289.37	119.6	11478	11301.13	132.08	11478	11263.67	106.83
51	20	rnd	11348	11133.4	104.64	11373	11278.67	66	11346	11197.63	99.32	11346	11191.2	117.82
		2op	11478	11176.1	163.29	11478	11252.97	151.64	11478	11241.13	129.5	11478	11211.97	154.45
	50	rnd	11346	11070.37	89.04	11305	11126.3	53.18	11373	11205.63	89.18	11346	11122.5	55.53
	20	rnd	11478	11196.13	146.3	11478	11305.87	115.65	11478	11288.83	141.04	11478	11235.83	167.37
		2op	11153	11082.8	44.47	11411	11201.57	94.54	11394	11277.87	60.17	11346	11119.93	55.12

Table A.2779: $x60189_4$: transRRGA – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11411	11269.97	112.24	11478	11290.8	113.25	11478	11278.2	130.8	11413	11220.17	145.61
		2op	11346	11127.83	117.96	11394	11229.33	99.46	11346	11147.07	117.99	11346	11154.97	192.27
	50	rnd	11413	11238.4	149.91	11478	11329.07	92.39	11411	11250.1	124.77	11478	11228.13	120.21
51	20	rnd	11348	11128.27	119.69	11373	11292.6	72.28	11305	11209.27	82.85	11346	11180.57	123.78
		2op	11411	11199.5	171.44	11413	11265	108.35	11478	11345	94.21	11478	11281.37	114.75
	50	rnd	11109	11052.27	44.69	11305	11112.47	38.19	11305	11183.37	88.22	11109	11096.57	32.25
	20	rnd	11413	11267.03	94.05	11478	11294.07	119.94	11478	11353.9	101.55	11478	11309.97	122.13
		2op	11346	11083.5	96.6	11373	11188.77	97.3	11411	11277.4	76.49	11346	11112.57	114.12

Table A.2780: $x60189_4$: basicRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11234.37	173.08	11478	11307.8	131.58	11478	11284	136.51	11478	11254.17	139.15
		2op	11346	11136.87	124.15	11394	11286.47	51.14	11346	11158.2	96.55	11372	11208.47	109.79
	50	rnd	11478	11216.03	131.76	11478	11283.83	141.79	11478	11276.4	109.16	11478	11281.07	134.33
		2op	11348	11138.43	109.31	11373	11253.5	69.84	11305	11205.73	93.3	11346	11195.6	94.37
51	20	rnd	11478	11190.83	134.07	11478	11219.77	141.83	11411	11235.27	93.71	11478	11222	161.82
		2op	11109	11046.13	42.68	11305	11134.47	66.12	11373	11165.47	89.61	11285	11111.67	38.55
	50	rnd	11478	11186.97	178.68	11478	11306.23	145.64	11478	11317.3	127.66	11478	11310.07	129.72
		2op	11305	11091.13	73.21	11373	11217.37	97.57	11373	11281.3	61.29	11346	11128.13	62.57

Table A.2781: $x60189_4$: transRRGA+RS – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11413	11226.6	140.92	11365	11179.9	132.93	11478	11164.63	157.92	11478	11152.23	214.8
		2op	11109	11089.07	37.59	11478	11138.33	149.1	11478	11161.97	176.74	11411	11159.43	160.45
	50	rnd	11411	11261.1	101.19	11411	11168.9	154.69	11478	11197.37	153.25	11338	11113.9	145.99
		2op	11256	11103.47	54.02	11478	11168.87	175.46	11411	11148.53	168.5	11394	11163.5	142.74
51	20	rnd	11413	11261.3	96.26	11478	11256.4	132.7	11478	11198.27	157.2	11478	11186.3	184.82
		2op	11109	11093.67	34.87	11305	11211.07	74.19	11346	11153.9	159.07	11348	11183.8	154.78
	50	rnd	11413	11264.07	76.77	11478	11264.57	110.07	11478	11239.63	142.39	11394	11181.27	124
		2op	11109	11099.8	28.07	11373	11222.67	146.56	11373	11186.77	118.3	11411	11137.6	133.24

Table A.2782: $x60189_4$: basicRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	11478	11238.53	148.89	11478	11206	199.52	11478	11153.17	174.88	11394	11155.47	145.52
		2op	11109	11092.13	35.18	11478	11170.6	172.06	11348	11124.9	160.31	11373	11189.47	135.42
	50	rnd	11478	11195.5	155.64	11478	11278.87	91.51	11478	11158.3	166.93	11394	11172.43	135.92
		2op	11256	11098.57	45.74	11394	11241.6	84.85	11478	11172.47	148.99	11411	11108.37	192.43
51	20	rnd	11478	11230.13	138.36	11478	11287.37	151.67	11478	11206.1	174.98	11478	11238.83	136.05
		2op	11109	11093.67	34.87	11394	11174.87	133.96	11346	11145.9	126.8	11478	11170.27	168.91
	50	rnd	11413	11222.47	128.87	11413	11276.07	112.77	11478	11258.23	147.75	11411	11177	155.64
		2op	11305	11103.27	49.58	11305	11140.83	106.31	11478	11163.07	118.56	11478	11135.6	180.48

Table A.2783: $x60189_4$: transRRGA+IM – Suspected Optimal is 11478

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13925.73	144.29	14161	14030.53	112.51	14157	13924.47	158.62	14161	13885.43	173.01
		2op	13995	13851.13	88.18	14157	14006.03	82.03	14038	13916.87	74	14097	13866.07	167.72
	50	rnd	14161	13909.23	186.56	14161	14006.03	107.21	14139	13942.77	122.84	14125	13895.93	135.92
51	20	rnd	14038	13900.07	103.56	14157	14055.5	62.69	14038	13967.07	46.86	14008	13846.2	115.78
		2op	14161	13918.63	140.15	14161	13994.6	129.22	14161	13985	127.85	14161	13926	138.63
	50	rnd	14038	13882.73	70.93	14064	14008.03	35.84	14038	13980.07	31.93	14002	13902.87	96.52
	20	rnd	14161	13926.4	153.9	14161	14008.03	111.53	14161	14005.93	120.77	14157	13865.37	175.41
		2op	14018	13904.43	78.16	14157	14017.4	61.01	14157	14023.4	46.07	14038	13916	88.1

Table A.2784: $x60189_5$: basicRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14119	13860.73	121.57	14161	13957.4	115.12	14133	13929.57	102.11	14157	13930.27	128.64
		2op	14038	13906.37	92.36	14157	14012.43	58.34	14157	13927.2	118.33	14103	13899.67	122.94
	50	rnd	14157	13842.83	196.63	14137	13960.9	109.08	14161	13984.77	121.54	14161	13905.93	177.32
51	20	rnd	14133	13912.27	113.39	14157	14038.97	69.04	14133	13971.37	71.41	14157	13926.6	102.28
		2op	14157	13886.73	171.96	14137	13910.4	107.18	14161	13944.67	139.14	14139	13941.73	123.38
	50	rnd	14038	13872.27	85.09	14157	14012.53	60.44	14038	13989.47	30.88	14038	13965.83	75.35
	20	rnd	14071	13816.93	190.23	14161	13950.93	128.14	14139	13965.5	128.34	14161	13872.67	163.77
		2op	13995	13911.57	72.29	14157	14035.53	65.66	14157	14013.97	51.44	14038	13933.3	83.79

Table A.2785: $x60189_5$: transRRGA – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13919.57	144.13	14161	14024.87	125.5	14139	13914.83	119.34	14097	13852.03	136.3
		2op	14018	13881.9	108.1	14157	13996.8	58.02	14038	13894.03	132.43	14018	13873.27	136.12
	50	rnd	14161	13911.37	150.72	14161	14023.77	109.06	14137	13918.83	114.15	14137	13859	145.63
51	20	rnd	14038	13907.37	88.72	14157	14026.57	51.7	14119	13939.53	60.53	14018	13873.13	121.6
		2op	14161	13956.33	116.39	14161	13999.83	128.37	14157	13965.57	131.73	14133	13948.1	129.7
	50	rnd	14038	13859.1	84.56	14157	14025.33	51.24	14038	13992.7	38.54	14038	13905.13	81.7
	20	rnd	14161	13968.6	137.55	14161	14001.1	115.48	14161	14030.57	110.29	14157	13921.1	155.01
		2op	14038	13876.5	93.35	14157	14015.83	53.88	14157	14026.9	43.14	14038	13854.13	86.16

Table A.2786: $x60189_5$: basicRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14133	13838.97	188.83	14161	13962.2	142.96	14161	13957.07	133.31	14127	13873.17	164.59
		2op	14038	13911.53	99.79	14157	14028.93	66.39	14157	13933.53	87.52	14157	13916.1	118.25
	50	rnd	14128	13860.97	127.11	14157	13977.5	155.4	14157	13973.6	99.59	14161	13907.73	181.52
51	20	2op	14038	13944.2	77.79	14157	14048.37	68.43	14157	13965	92.85	14157	13923.43	123.74
		rnd	14137	13853.67	152.6	14161	13905.17	128.03	14161	13917.37	153.73	14161	13955.53	169.15
	50	2op	14038	13885.17	87.86	14157	13996.8	47.69	14133	13997.57	36.35	14038	13941.47	90.4
	20	rnd	14139	13875.47	170.55	14161	13989.87	107.16	14161	13983.37	137.01	14161	13837.03	182.24
		2op	14038	13898.97	103.43	14133	13992.63	40.84	14157	14027.1	67.48	14038	13933.43	100.36

Table A.2787: $x60189_5$: transRRGA+RS – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13950.23	147.59	14157	13862.33	203.15	14139	13783.3	177.72	14062	13759.77	162.87
		2op	13995	13882.63	58.24	14103	13808.43	186.76	14121	13896.87	127.18	14121	13803.77	195.99
	50	rnd	14139	13998.23	118.05	14157	13816.87	213.58	14127	13810.63	191.86	14094	13823.13	160.03
51	20	2op	13995	13895.57	72.36	14157	13883.03	146.59	14133	13838.07	197.61	14103	13837.97	158.95
		rnd	14161	13954.07	153.2	14161	13961.53	130.85	14137	13906.2	143.94	14125	13890.57	157.19
	50	2op	13995	13901.3	76.42	14119	13926.9	110.17	14100	13885.17	154.73	14133	13847.77	189.18
	20	rnd	14139	13992.17	123.23	14161	13966.13	116.89	14157	13864.6	151.24	14133	13881.1	170.63
		2op	13995	13923.1	68.96	14038	13952.23	69.57	14038	13830.47	138.55	14103	13816.53	172.58

Table A.2788: $x60189_5$: basicRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	14161	13874.37	191.33	14161	13862.67	187.15	14102	13850.4	141.74	14133	13782.7	155.04
		2op	14038	13936.67	68.9	14157	13849.8	160.65	14157	13857.93	154.85	14062	13792.77	140.28
	50	rnd	14161	13845.67	192.96	14139	13900.67	158.1	14086	13847	130.07	14037	13776.23	181.52
51	20	2op	14038	13985.13	43.63	14139	13961	120.51	14157	13906.43	122.23	14097	13781.33	174.64
		rnd	14137	13896.13	141.01	14128	13881.43	146.59	14161	13892.33	179.36	14157	13846.57	156.89
	50	2op	14038	13952.57	62.15	14105	13937.33	105.84	14102	13872.47	167.94	14133	13819.07	153.58
	20	rnd	14137	13877.47	126.32	14161	13949.9	107.17	14161	13951.77	126.97	14139	13826.37	169.1
		2op	14038	13971.27	42.96	14038	13967.5	56.39	14038	13912.03	95.69	14097	13869.5	155.31

Table A.2789: $x60189_5$: transRRGA+IM – Suspected Optimal is 14161

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18143	17961.77	106.11	18301	17983.37	154	18172	17925.83	137.35	18172	17885.9	171.65
		2op	18064	17975.37	94.59	18064	18000.23	22.95	18172	17939.7	126.91	18275	17975.83	127.22
	50	rnd	18156	17948.53	121.73	18301	18075.3	125.18	18301	17954.67	187.06	18184	17938.37	167.95
51	20	2op	18017	17998.6	27.97	18056	18006.63	26.11	18142	17951.1	102.83	18142	17922.63	133.02
		rnd	18184	17944.63	157.33	18301	18003.17	133.66	18301	17971.5	156.42	18171	17956.3	130.87
	50	2op	18017	18009.87	16.96	18017	18015.57	6.51	18017	18006.83	16.2	18017	17992.37	47.65
	20	rnd	18184	18004.3	151.39	18184	17988.53	135.13	18216	18012.03	144.53	18172	17941.93	165.66
		2op	18017	18004.03	22.21	18017	18017	0	18017	18005.8	16.98	18017	17974.47	57.67

Table A.2790: $x60189_6$: basicRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18093	17897.27	142.79	18136	17997.93	124	18301	17986.83	162.45	18216	17960.23	150.43
		2op	18074	17979.47	97.95	18042	18014.63	11.57	18142	17955.93	90.44	18142	17979.43	88.07
	50	rnd	18175	17863.6	187.19	18184	18007.4	160.58	18172	17968.63	165.03	18301	17951.43	175.97
51	20	2op	18017	17996.47	24.41	18142	18024.03	25.34	18142	18002.87	79.13	18142	17968.9	98.87
		rnd	18184	17888.03	176.35	18171	17978	137.58	18301	17949.73	170.1	18176	17949.63	187.15
	50	2op	18017	18007.37	19.74	18017	18017	0	18142	18020.97	22.89	18017	18000.93	23.96
	20	rnd	18114	17844.6	182.53	18125	17924.83	175.74	18156	17952.87	124.14	18176	17907.07	158.28
		2op	18017	18004.13	20.52	18017	18017	0	18017	18017	0	18017	17983.27	48.35

Table A.2791: $x60189_6$: transRRGA – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18184	17948.87	154.8	18171	17986.5	113.97	18301	17968.03	149.44	18120	17933.9	106.65
		2op	18142	17990.37	84.26	18074	17977.17	63.31	18142	17965.1	110.12	18142	17926.97	127.35
	50	rnd	18172	17901.27	157.23	18275	18039.3	120.93	18123	17911.8	197.86	18301	17970.9	129.71
51	20	2op	18064	17987.7	63.47	18101	18014.83	33.73	18142	17959.27	102.05	18142	17951.33	120.48
		rnd	18175	17922.07	156.53	18186	17976.67	126.18	18301	17979.8	181.52	18125	17895.5	180.79
	50	2op	18142	18014.97	28.31	18017	18017	0	18017	18006.23	14.58	18017	17989.17	57.43
	20	rnd	18142	17938.77	107.43	18301	18026.53	110.77	18301	18018.87	124.19	18301	17932.07	178.05
		2op	18017	18006	22.27	18017	18017	0	18017	18010.13	13.89	18142	17978.27	83.57

Table A.2792: $x60189_6$: basicRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17885.87	201.11	18171	17966.27	149.8	18207	18007.57	123.98	18171	17926.77	145.44
		2op	18142	17988.33	88.79	18097	18013.97	36.74	18142	17987.3	86.88	18142	17945.83	99.5
	50	rnd	18109	17897.6	147.39	18301	17979.6	160.78	18172	17963.67	125.28	18172	17971.13	147.93
51	20	2op	18142	17995.5	61.85	18064	18015.03	23.68	18142	17990.9	78.22	18176	17983.5	121.87
		rnd	18275	17885.73	164.68	18165	17990.17	131.92	18275	18020.87	118.29	18165	17892.63	140.29
	50	2op	18142	18015.63	28.26	18017	18017	0	18142	18021.17	22.82	18017	17998.17	21.62
	20	rnd	18301	17951.17	162.24	18301	17969.3	141.74	18301	17969.53	141.27	18301	17965.03	129.56
		2op	18017	17994.2	50.77	18017	18017	0	18017	18017	0	18025	17959.73	68.54

Table A.2793: $x60189_6$: transRRGA+RS – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18165	17948.67	164	18172	17962.33	145.94	18111	17884.73	154.22	18172	17823.53	233.52
		2op	18017	18017	0	18301	17920.53	185.49	18156	17902	162.83	18145	17909.23	147.57
	50	rnd	18184	17966.47	122.96	18156	17873.27	189.2	18266	17883.07	189.14	18087	17793.93	165.8
51	20	2op	18017	18015.63	7.49	18125	17857.57	148.68	18193	17849	158.18	18083	17881.77	140.17
		rnd	18184	17974.67	150.65	18181	17969.43	135.96	18292	17892.53	206.58	18269	17862.93	209.14
	50	2op	18017	18017	0	18156	17950.2	140.29	18142	17945.03	128.94	18175	17876.87	150.61
	20	rnd	18142	17975.63	158.3	18156	17959.23	145.94	18152	17862.33	165.55	18301	17888.77	173.53
		2op	18017	18017	0	18134	17943.03	112.62	18142	17925.9	163.34	18111	17844.3	150.57

Table A.2794: $x60189_6$: basicRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	18301	17906.07	216.15	18301	17979.13	177.36	18266	17882.87	187.73	18275	17839.37	237.59
		2op	18017	18017	0	18266	17939.4	177.38	18111	17853.27	229.69	18193	17787.53	177.01
	50	rnd	18084	17882.47	136	18301	17977.5	142.93	18301	17894	178.79	18301	17928.1	188.4
51	20	2op	18017	18015.83	6.39	18292	17933.7	123.88	18275	17919.97	144.71	18142	17905.4	149.48
		rnd	18181	17941.8	180.88	18165	17941.73	150.41	18156	17857.83	188.23	18172	17842.83	211.76
	50	2op	18017	18017	0	18292	17959.67	144.3	18046	17888.67	121.36	18196	17902.23	173.21
	20	rnd	18176	18025.6	98.88	18152	17962.27	119.48	18175	17973.2	149.62	18184	17915.87	154.58
		2op	18017	18017	0	18017	18003.13	32.18	18142	17967.9	99.19	18261	17861.07	171.91

Table A.2795: $x60189_6$: transRRGA+IM – Suspected Optimal is 18301

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21193	20949.93	175.11	21218	20982.37	159.25	21142	20858.43	153.68	21166	20925.97	183.42
		2op	21154	20839.6	124.01	21159	20934.53	114.38	21153	20894.53	147.66	21190	20892.53	191.89
	50	rnd	21190	20963.5	147.71	21218	20985.53	156.5	21249	20961.07	182.82	21201	20988.6	183.16
51	20	rnd	21101	20844.4	132.52	21193	21019.83	98.91	21154	20896.83	115.76	21108	20929.2	103.14
		2op	21136	20893.63	166.04	21212	21009.67	155.08	21162	20913.83	173.58	21176	20987.5	127.07
	50	rnd	21015	20849.97	64.22	21030	20894.57	81.17	21035	20851.87	64.14	21035	20915.43	82.27
	20	rnd	21210	20977.37	156.04	21212	21001.97	160.77	21271	20991.7	144.41	21212	20923.3	199.4
		2op	21025	20845	47.59	21193	20958.77	94.62	21168	20875.8	105.66	21096	20903.9	108.83

Table A.2796: $x60189_7$: basicRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21184	20881.3	199.24	21178	20938.47	166.95	21260	20955.6	234.21	21196	20930.8	191.82
		2op	21162	20853.37	119.22	21193	20936.17	102.37	21165	20924.33	115.41	21193	21005	102.02
	50	rnd	21162	20832.93	238.36	21176	20971.33	135.87	21271	20942.8	156.33	21249	20915.67	219.16
51	20	rnd	21101	20876.27	105.75	21190	21039.67	80.41	21207	20956.93	116.14	21154	20929.7	129.28
		2op	21172	20871.27	166.4	21196	20941.33	191.78	21186	20972.2	158.25	21193	20910	195.68
	50	rnd	21015	20850.57	65.45	21086	20908.93	89.25	21015	20862.83	62.07	21074	20911.83	92.18
	20	rnd	21245	20855.43	236.67	21186	20958.93	151.16	21212	20963.3	142.25	21180	20916.7	204.35
		2op	21025	20845	47.59	21154	20953.8	91.5	21166	20884.4	90.67	21155	20932.53	106.79

Table A.2797: $x60189_7$: transRRGA – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21207	20876.33	183.82	21211	20986.17	131.78	21212	20962.8	186.19	21157	20953	149.4
		2op	21154	20864.97	115.75	21207	20896.9	111.41	21119	20874.7	130.15	21148	20922.63	143.13
	50	rnd	21218	21002.33	119.61	21218	21025.93	129.29	21184	20886.13	187.56	21199	20952.03	174.12
51	20	rnd	21077	20887.97	103.86	21116	20983.4	82.47	21159	20884.9	152.39	21133	20930.67	143.42
		2op	21182	20979.1	146.44	21238	20977.37	189.48	21178	20893	192.02	21196	20971.27	143.24
	50	rnd	21052	20857.47	67.22	21068	20900.6	81.24	21038	20851.3	84.71	21148	20904.43	92.31
	20	rnd	21173	20968.8	161.9	21169	20964.57	170.7	21161	20954.8	133.94	21145	20937.7	178.97
		2op	21123	20856.63	95.2	21193	20961.2	101.93	21055	20870.33	77.92	21092	20923.2	85.64

Table A.2798: $x60189_7$: basicRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21175	20885.97	210.97	21135	20963.6	132.33	21170	20860.87	207.23	21233	20920.63	206.33
		2op	21154	20870.93	110.53	21210	20917.83	96.84	21218	20921.97	143.83	21172	20924.1	150.32
	50	rnd	21233	20883.97	220.04	21212	20995.7	138.6	21149	20862.17	187.36	21161	20926.9	174.25
51	20	rnd	21077	20894.8	103	21212	20999.1	84	21193	20911.4	131.08	21162	20962.6	118.03
		2op	21172	20840.9	235.12	21161	20927.4	158.09	21203	20917.4	199.25	21211	20898.57	172.73
	50	rnd	21052	20856.17	68.95	21193	20929.57	106.84	21115	20856.67	65.9	21198	20924.97	100.25
	20	rnd	21153	20883.67	190.26	21182	20980.17	159.82	21187	21010	108.08	21182	20945.77	153.44
		2op	21123	20867.77	91.67	21193	20990.8	101.31	21047	20891.37	81.66	21166	20917.63	98.85

Table A.2799: $x60189_7$: transRRGA+RS – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21218	20983.83	154.89	21212	20868.17	196.94	21197	20828.9	230.68	21207	20868.77	164.59
		2op	21018	20839.23	38.41	21172	20853.87	222.37	21158	20883.43	181.01	21174	20829.6	216.66
	50	rnd	21215	20940.33	182.4	21155	20849.97	192.48	21100	20803.73	222.81	21158	20823.47	207.58
51	20	rnd	21019	20857.93	59.09	21207	20892.33	196.93	21198	20802.9	195.97	21179	20814.97	276.47
		2op	21203	20913.6	202.61	21211	20961.5	168.45	21187	20962.87	153.92	21202	20849.3	190.48
	50	rnd	20889	20831	10.95	21211	20938.37	175.58	21104	20810.4	210.41	21199	20942.43	152.49
	20	rnd	21203	20935.13	142.86	21182	21011.77	109.22	21203	20895.2	193.19	21142	20848.33	166.36
		2op	21193	20868.4	106.42	21199	20950.3	149.76	21168	20911.87	155.98	21199	20875.7	206.22

Table A.2800: $x60189_7$: basicRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	21249	20889.37	208.74	21211	20871.03	145.5	21206	20932.77	173.6	21187	20834	276.03
		2op	21029	20839.6	40.18	21198	20868.13	182.57	21140	20842	208.07	21165	20898.13	190.69
	50	rnd	21271	20912.57	165.19	21199	20973.7	164.62	21231	20947.63	147.07	21101	20822.77	205.45
51	20	rnd	21019	20857.93	59.09	21192	20949.17	135.85	21206	20976.93	148.27	21149	20836.9	170.1
		2op	21203	20900.17	184.61	21182	20938.27	141.85	21178	20906.23	174.55	21134	20885.47	190.09
	50	rnd	20889	20831	10.95	21108	20909.67	128.8	21186	20945.13	122.4	21165	20879.83	193.63
	20	rnd	21196	20896.97	185.99	21212	20942.7	141.37	21172	20951.47	190.92	21136	20869.6	214.9
		2op	21193	20868.4	106.42	21210	21004.37	130.25	21165	20942.4	88.27	21151	20866.7	184.3

Table A.2801: $x60189_7$: transRRGA+IM – Suspected Optimal is 21271

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.2	3.01	596	593.37	2.11	596	593.3	1.24	596	590.1	3.47
		2op	596	592.07	2.82	596	594.23	1.25	595	593.8	1.35	595	589.67	2.71
	50	rnd	596	591.73	3.13	596	594.33	1.45	596	594.27	1.66	596	591.67	2.6
51	20	2op	595	593.1	1.45	596	594.47	1.43	596	594.17	1.37	596	590.2	3.52
		rnd	596	592.53	2.34	596	594.03	1.16	596	594.43	1.19	596	593.1	1.84
	50	2op	595	593	1.95	596	594.73	0.64	596	595	0.45	596	594.57	1.22
		rnd	596	592.4	2.06	596	594.4	0.93	596	594.73	1.05	595	593.5	1.46
		2op	595	593.07	2.1	596	595	0.79	596	595.27	0.58	596	594.3	1.6

Table A.2802: f_{25_305} : basicRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.6	2.79	596	593.53	1.83	596	593.33	2.23	596	592.13	2.08
		2op	596	592.47	2.43	596	594.37	1.47	596	594.17	1.7	595	591.83	2.78
	50	rnd	596	592.33	3.11	596	594.27	1.82	596	594.63	1.07	596	591.87	2.76
51	20	2op	595	593.07	1.8	596	594.4	1.28	596	594.37	1.22	595	592.57	2.05
		rnd	595	591.57	2.24	596	593.83	1.7	596	594.23	1.38	596	593.17	2.13
	50	2op	595	593.63	1.33	596	594.83	0.95	596	594.9	0.8	596	594.57	0.77
		rnd	596	592.83	1.93	596	594.6	1.19	596	594.83	0.79	596	594.03	1.67
		2op	595	593.07	2.23	596	594.83	1.02	596	595.23	0.63	596	594.3	1.09

Table A.2803: f_{25_305} : transRRGA – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	592.77	2.3	596	593.47	1.63	596	593.1	2.16	595	590.67	2.87
		2op	595	591.77	2.71	596	594.07	1.51	595	594.1	1.27	595	589.23	3.22
	50	rnd	596	591.9	2.32	596	594.1	1.32	596	593.93	1.6	595	590.17	3.39
51	20	2op	596	592.17	2.68	596	594.17	1.32	596	593.77	1.36	595	590.63	2.79
		rnd	596	591.8	3	596	593.9	1.47	596	594.53	1.33	596	593.67	1.63
	50	2op	595	593.27	1.53	596	594.9	0.48	596	594.9	0.55	595	594.67	0.61
		rnd	596	591.8	2.43	596	594.6	1	596	594.73	0.94	596	593.3	1.8
		2op	596	593.1	2.5	596	594.97	0.61	596	595	0.64	596	593.8	1.63

Table A.2804: f_{25_305} : basicRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	595	590.87	3.31	596	593.77	1.92	596	593.5	2.01	596	591.8	2.92
		2op	596	591.83	2.78	596	594.27	1.51	596	593.67	1.67	596	592.8	2.71
	50	rnd	595	591.13	2.62	596	594.63	1.07	596	594.57	1.01	595	592.33	2.71
51	20	2op	596	592.73	2.13	596	594.8	1.13	596	594.23	1.57	595	592.33	1.86
		rnd	596	591.07	3.23	596	593.77	1.65	596	594.67	1.18	596	593.33	1.56
	50	2op	595	593.3	1.37	596	594.87	0.63	596	594.87	0.86	596	594.77	0.94
	20	rnd	596	591.77	2.33	596	594.93	0.87	596	594.6	1.3	596	593.4	2.01
		2op	596	593.33	2.23	596	594.97	0.76	596	595.2	0.61	596	593.6	1.69
	50	rnd	596	591.77	2.33	596	594.93	0.87	596	594.6	1.3	596	593.4	2.01

Table A.2805: f_{25_305} : transRRGA+RS – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	592.43	2.36	595	591.07	3.29	595	589.03	3.23	595	589.7	2.97
		2op	596	594	1.02	596	590.33	4.1	594	589.53	2.69	595	589.1	3.81
	50	rnd	596	593.1	1.83	595	590.53	3.82	596	590.5	2.96	594	588.93	3.85
51	20	2op	595	593.7	1.24	596	589.83	4.62	595	589.1	4.06	596	589.8	2.98
		rnd	596	591.7	2.64	596	590.37	3.8	595	589.17	5.27	595	588.9	3.65
	50	2op	595	593.73	1.26	596	589.8	4.82	596	590.53	3.35	594	590.37	3.3
	20	rnd	596	593.63	1.83	595	591.03	3.09	596	590.77	3.31	595	589.27	3.19
		2op	596	594.53	0.9	595	591.47	2.92	595	590.23	3.26	595	589.67	3.35
	50	rnd	596	593.63	1.83	595	591.03	3.09	596	590.77	3.31	595	589.27	3.19

Table A.2806: f_{25_305} : basicRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	596	591.93	2.66	595	588.77	4.48	596	589.27	3.77	595	589.03	3.27
		2op	596	594.33	0.71	595	590.33	2.62	596	588.9	4.73	595	589	3.5
	50	rnd	595	591.8	2.06	596	590.5	3.1	596	589.27	4.71	595	588.87	3.23
51	20	2op	596	593.93	1.41	595	589.83	3.33	596	588.77	4.92	594	588.6	4.34
		rnd	596	592.9	1.94	596	590.17	4.27	595	588.67	4.04	595	588.47	3.95
	50	2op	595	594.13	0.35	595	590.07	3.23	595	590.3	3.81	595	588.63	3.63
	20	rnd	596	592.83	1.53	595	591	3.39	596	589.97	3.53	595	589.07	3.79
		2op	596	594.67	0.55	595	589.67	3.84	595	591.27	4.06	595	589.5	3.51
	50	rnd	596	592.83	1.53	595	591	3.39	596	589.97	3.53	595	589.07	3.79

Table A.2807: f_{25_305} : transRRGA+IM – Suspected Optimal is 596

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.57	5.67	777	775.03	1.69	777	774.27	1.76	777	771.37	4.26
		2op	775	769.87	3.58	777	773.93	2.12	777	772.97	2.24	777	769.67	4.41
	50	rnd	777	772	3.25	777	775.2	1.06	777	775.4	1.33	777	770.03	3.25
51	20	rnd	776	771.23	3.09	777	774.67	1.65	777	775.03	1.69	775	769.77	3.54
		2op	777	772.43	2.62	777	774.1	2.2	777	774.3	1.91	777	773.87	1.87
	50	rnd	775	768.33	3.76	777	773.3	2.28	777	773.7	1.53	777	772.17	2.15
	20	rnd	777	772.83	2.82	777	774.87	1.76	777	775.9	1.09	777	773.33	2.87
		2op	775	769.87	1.78	777	774.37	2.11	777	775.4	1.38	777	772.77	1.89

Table A.2808: f_{25_400} : basicRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.33	4.89	777	774.67	2.15	777	774.37	2.59	777	772.97	3.23
		2op	775	769.47	3.01	777	774.77	1.96	777	773.3	1.82	777	770.83	2.87
	50	rnd	777	772.03	5.08	777	775.33	1.47	777	775.23	1.68	777	772.37	2.66
51	20	rnd	775	770.43	4.95	777	775.5	1.28	777	774.93	1.76	777	772.97	2.55
		2op	777	771.27	5.36	777	773.77	2.22	777	774	2.08	777	773.17	2.46
	50	rnd	775	769.2	2.06	777	773.33	1.83	777	773.4	1.22	776	772.2	1.67
	20	rnd	777	772.13	4.68	777	774.53	1.53	777	775.47	1.43	777	774.13	1.93
		2op	774	769.63	2.04	777	774.67	1.99	777	775.2	1.71	775	772.57	1.55

Table A.2809: f_{25_400} : transRRGA – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.4	3.75	777	775.1	1.49	777	774.23	1.98	777	771.67	3.88
		2op	777	770.4	3.14	777	774.37	1.77	777	773	2.85	776	768.93	4.81
	50	rnd	776	771.57	3.49	777	775.33	1.27	777	774.77	1.52	776	771.73	2.94
51	20	rnd	775	770.2	3.37	777	774.67	1.83	777	775.23	1.25	777	770.9	3.41
		2op	777	770.87	3.8	777	774.4	1.94	777	774.6	1.79	777	773.87	1.93
	50	rnd	773	768.57	1.72	777	772.4	2.24	777	773.93	1.44	774	771.63	1.61
	20	rnd	777	771.97	3.11	777	775.1	1.4	777	774.97	1.63	777	774.07	2.07
		2op	776	770.4	2.08	777	774.67	1.9	777	775.07	1.89	777	772.8	2.07

Table A.2810: f_{25_400} : basicRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	777	771.67	2.78	777	774.77	1.85	777	774.33	1.86	777	770.5	5.86
		2op	777	771.37	2.27	777	774.77	2.01	777	773.03	2.03	775	771.3	3.11
	50	rnd	777	772.7	2.9	777	774.93	1.46	777	774.7	1.53	777	772.13	2.73
51	20	rnd	777	771.07	2.27	777	774.73	1.7	777	775.43	1.43	777	771.93	2.33
		2op	777	771.83	3.22	777	773.93	2.16	777	774.1	1.84	777	773.37	2.71
	50	rnd	775	768.33	4.53	777	773.3	1.53	777	773.97	1.54	777	772.57	1.85
	50	rnd	777	773.8	1.83	777	774.83	1.8	777	775.77	1.04	777	773.5	2.8
		2op	775	770.03	2.5	777	774.13	1.53	777	775.2	1.71	777	773.3	1.93

Table A.2811: f_{25_400} : transRRGA+RS – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	775	771.27	3.43	777	770.43	7.92	777	766	9.22	775	766.9	7.35
		2op	774	769.7	1.66	777	771.33	7.03	775	767.53	9.48	777	765.67	9.86
	50	rnd	777	772.37	3.11	777	769.5	7.2	775	769.37	4.2	777	765.2	9.47
51	20	rnd	775	770.03	1.81	777	769.33	7.14	777	768.03	7.5	776	766.3	7.45
		2op	775	772.37	2.47	777	771.57	5.64	777	769.63	8.81	777	770.93	4.14
	50	rnd	772	769.93	0.69	777	770.2	7.77	777	770.73	4.53	776	769.23	5.19
	50	rnd	777	772.97	2.06	776	772.17	3.46	776	770.6	3.38	776	766.5	7.98
		2op	774	770.4	1.16	777	772.17	5.06	777	771.1	5.47	776	766.63	9.02

Table A.2812: f_{25_400} : basicRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	776	770.7	3.26	775	769	5.61	776	766.6	10.73	777	766.77	9.69
		2op	775	769.9	1.75	775	766.63	7.68	775	765.7	8.84	775	765.83	9.35
	50	rnd	777	772.47	2.67	777	767.77	9.89	777	767.6	9.27	776	766.7	10.16
51	20	rnd	777	770.9	2.56	777	771.1	5.6	777	766.97	9.33	777	769.07	7.84
		2op	777	771.87	2.9	777	769.8	6.93	777	766.63	9.52	777	768.3	7.96
	50	rnd	772	769.9	0.71	777	770	3.83	777	768.9	7.91	776	762.93	11.93
	50	rnd	777	773.9	2.01	777	771.43	4.38	777	768.67	8.17	777	768.43	5.65
		2op	775	770.57	1.77	777	769.63	7.25	776	768.3	6.47	776	765.6	9.6

Table A.2813: f_{25_400} : transRRGA+IM – Suspected Optimal is 777

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	915.6	3.22	921	917.17	2.1	921	917.17	2.59	918	912.5	3.08
		2op	918	913.53	3.09	921	917.47	2.01	918	915.93	1.6	919	913.4	3.73
	50	rnd	921	915.63	3.13	921	917.87	2.16	921	917.97	1.9	919	914.83	3.09
51	20	2op	921	915.17	2.98	921	918.63	1.75	921	917.97	1.92	921	913.93	3.62
		rnd	921	916.23	2.31	921	917.57	2.22	921	917.27	2.3	921	916.97	2.79
	50	2op	918	915.03	2.37	921	916.57	2.64	921	917.6	1.67	921	916.43	1.3
	20	rnd	921	915.97	2.58	921	918	1.6	921	917.97	1.97	921	916.97	2.55
		2op	918	914.67	2.72	921	917.43	2.14	921	918.77	1.77	921	916.4	2.3

Table A.2814: f_{25_500} : basicRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.07	3.4	921	916.83	3.13	921	916.23	2.86	919	915.23	2.37
		2op	919	915.27	2.69	921	917.83	1.74	921	917.47	1.96	921	915.13	2.7
	50	rnd	921	916	2.88	921	917.8	2.35	921	918.43	2.06	921	914.93	2.89
51	20	2op	921	915.13	2.57	921	918.23	2.05	921	918.97	2.13	921	916	3.04
		rnd	919	914.13	3.62	921	916.37	2.43	921	917.8	2.16	921	916.93	2.94
	50	2op	917	914.73	2.03	919	916.57	1.14	921	917.73	1.72	921	916.37	1.19
	20	rnd	919	914.1	3.2	921	916.7	2.1	921	917.23	2.14	921	915.53	3.3
		2op	918	915.5	1.68	921	918.6	2.09	921	919.17	1.72	921	916.87	1.5

Table A.2815: f_{25_500} : transRRGA – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	919	915.4	2.85	921	917.8	2.64	919	917.13	1.46	921	913.47	4.14
		2op	919	914.53	2.53	921	917.27	1.68	921	918	1.97	921	912.17	4.28
	50	rnd	919	915.17	2.23	921	918.03	2.31	921	917.77	1.63	921	914.47	3.05
51	20	2op	921	915.2	3.03	921	917.57	2.03	921	918.73	1.51	921	915.23	2.97
		rnd	921	915.5	2.83	921	916.63	2.82	921	917.93	1.72	921	916.8	2.94
	50	2op	918	915	2.07	921	916.73	2.05	921	917.43	1.74	921	916.37	1.38
	20	rnd	921	915.23	2.75	921	917.23	2.31	921	917.73	1.34	921	916.9	2.87
		2op	921	915	2.57	921	919.03	2.16	921	918.73	1.72	921	917	1.74

Table A.2816: f_{25_500} : basicRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	915.8	3.19	921	917.47	1.89	921	916.63	2.41	921	915.53	3.01
		2op	919	915	2.45	921	918.13	1.94	921	917.27	1.84	921	915.47	3.22
	50	rnd	921	914.2	3.17	921	916.93	2.08	921	917.83	2.05	921	916.23	2.86
51	20	2op	921	915.7	2.72	921	918.43	1.87	921	918.67	2.34	921	915.93	3.22
		rnd	919	914.73	2.33	919	915.9	2.06	921	916.53	2.3	921	916.47	3.32
	50	2op	919	915.77	1.89	921	916.7	1.82	921	918.27	1.98	921	916.67	1.71
		rnd	921	915.5	2.96	921	917	2	921	918.13	1.57	921	916.13	2.46
		2op	919	914.9	2.54	921	918.37	1.67	921	918.67	1.75	921	916.9	1.75

Table A.2817: f_{25_500} : transRRGA+RS – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.93	3.31	919	913.13	5.3	918	910.57	6.16	919	912.37	4.51
		2op	916	915.17	1.9	921	912.23	5.64	918	912.7	3.48	919	912.5	4.37
	50	rnd	919	915.67	2.35	921	914.03	3.5	919	911.07	7.29	919	911.43	6.66
51	20	2op	921	915.87	1.55	921	913.53	5.76	918	912.03	5.42	919	911.47	4.73
		rnd	921	916.2	2.62	919	913.5	6.5	921	914.6	5.48	921	914.03	3.79
	50	2op	916	916	0	921	913.6	5.96	919	913.13	5.75	919	913	4.29
		rnd	921	917.17	2.12	921	915.4	2.81	919	914.17	3.34	921	911.03	6.82
		2op	916	916	0	921	914.97	3.93	919	913.9	3.68	919	912.53	6.11

Table A.2818: f_{25_500} : basicRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	921	914.4	2.87	919	911.4	6.03	918	913	4.39	921	912.4	3.84
		2op	918	915.57	1.52	919	912.5	3.94	919	913.4	2.69	917	910.73	7
	50	rnd	919	915.73	2.53	921	915.07	3.63	919	913.17	3.98	919	913.17	4.44
51	20	2op	918	914.73	2.36	921	913.67	4.18	921	913.2	4.62	919	910.73	6
		rnd	921	916.2	2.48	921	914.93	4.9	919	913.1	3.29	919	912.07	5.34
	50	2op	916	915.83	0.91	921	914.87	3.13	919	913.57	3.93	919	913.17	3.94
		rnd	921	916.53	3.31	921	913.2	5.14	919	911.3	7.29	919	913.43	4.73
		2op	916	915.97	0.18	919	913.43	3.81	919	911.7	7.48	919	911.93	5.32

Table A.2819: f_{25_500} : transRRGA+IM – Suspected Optimal is 921

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1574	1561.13	8.67	1579	1561.6	7.89	1571	1557.57	8.24	1578	1557.03	13.33
		2op	1570	1559.7	8.05	1578	1559.7	7.13	1571	1557.23	8.89	1574	1557.3	9.41
	50	rnd	1574	1560.4	10.07	1572	1561.5	5.27	1573	1556.5	10.97	1571	1557.23	9.23
51	20	2op	1573	1559.07	7.99	1571	1559.7	6.37	1575	1558.4	8.88	1570	1558.07	10.31
		rnd	1577	1561	9.13	1576	1559.7	10.47	1575	1559.13	9.38	1573	1557.73	8.33
	50	2op	1574	1557.5	6.55	1576	1563.5	5.93	1572	1561.33	6.23	1575	1558.67	7.91
	50	rnd	1575	1564.93	5.68	1574	1561.77	7.76	1576	1562.63	8.65	1569	1555.93	8.29
		2op	1578	1560.93	6.24	1575	1563.43	5.54	1573	1562.9	6.32	1574	1559.53	6.8

Table A.2820: f_{50_315} : basicRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1577	1559.13	13.15	1572	1561.6	7.26	1576	1561.3	10.21	1574	1561.2	8.82
		2op	1575	1561.6	7.37	1578	1562.67	6.82	1572	1560.9	6.49	1575	1558.63	8.05
	50	rnd	1574	1559.97	9.62	1574	1561.97	6.26	1575	1562.53	6.57	1570	1559.23	8.56
51	20	2op	1572	1559.53	8.28	1573	1563.83	5.77	1575	1559.97	7.94	1578	1563.53	6.21
		rnd	1571	1559.43	10.79	1575	1561.8	7.43	1573	1561.97	10.17	1572	1558.43	8.53
	50	2op	1577	1558.67	6.93	1572	1564.43	4.31	1575	1562.83	6.5	1574	1561.53	5.58
	50	rnd	1573	1554.77	10.74	1581	1563.67	8.15	1577	1561.53	6.6	1575	1558.87	9.62
		2op	1568	1558.73	5.3	1573	1564.03	4.62	1570	1561.1	6.1	1574	1558.8	8.24

Table A.2821: f_{50_315} : transRRGA – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1573	1559.43	8.6	1573	1560.53	8.03	1573	1557.33	10.08	1571	1556.17	11.34
		2op	1572	1560.37	7.5	1575	1559.13	8.83	1571	1556.33	7.48	1572	1557.07	12.7
	50	rnd	1573	1562	4.71	1573	1557.8	10.04	1572	1558.3	9.71	1569	1557.17	9.75
51	20	2op	1571	1555.87	11.52	1573	1560.7	8.01	1571	1556.77	9.62	1575	1557.37	9.88
		rnd	1577	1562.37	9.64	1574	1561.67	8.33	1573	1561.13	7.99	1574	1557.07	9.99
	50	2op	1568	1558.43	5.98	1573	1559.8	7.49	1573	1560.37	6.81	1573	1557.43	8.9
	50	rnd	1576	1563.3	7.18	1574	1563.1	6.98	1574	1560.13	8.19	1574	1561.93	6.7
		2op	1569	1558.47	6.06	1573	1562.5	7	1574	1561.8	6.65	1571	1558.9	8.03

Table A.2822: f_{50_315} : basicRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1572	1557.73	8.09	1576	1561.63	7.99	1573	1562.4	5.77	1573	1559.8	7.76
		2op	1575	1558.6	9.04	1575	1561.37	7.32	1568	1557.77	6.78	1570	1558.93	7.39
	50	rnd	1575	1558.93	9.01	1576	1563.77	7.2	1581	1561.43	10.04	1577	1558.63	11.44
51	20	2op	1574	1560.77	8.06	1581	1565.7	8.09	1575	1561.2	10.03	1575	1559.87	8.59
		rnd	1577	1560	8.19	1580	1560.87	8.45	1574	1561.3	8.1	1572	1559.2	7.6
	50	2op	1574	1558.97	6.35	1574	1563	6.29	1573	1563.57	5.18	1576	1558.43	5.54
	50	rnd	1576	1560.33	10.16	1579	1563.4	8.32	1579	1562.37	8.9	1574	1559.33	10.21
		2op	1569	1558.93	6.56	1579	1563.93	7.11	1581	1565.53	6.89	1569	1558.9	4.95

Table A.2823: f_{50_315} : transRRGA+RS – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1575	1562.9	6.57	1574	1552.37	12.63	1576	1557.2	13.16	1571	1554.23	12.83
		2op	1567	1557.53	4.44	1574	1554.43	11.2	1576	1553.5	14.24	1568	1552.43	12.54
	50	rnd	1573	1561.77	6.82	1577	1556.77	9.69	1572	1556.77	9.27	1569	1552.1	10.09
51	20	2op	1572	1559.03	6.16	1573	1555.6	11.99	1570	1553	13.95	1575	1553.3	12.22
		rnd	1574	1561.9	8.57	1573	1556.3	12.26	1569	1554.43	11.62	1573	1553.8	13.06
	50	2op	1569	1557.83	4.04	1571	1553.93	11.78	1574	1557.57	10.76	1572	1553.93	13.87
	50	rnd	1574	1564.13	5.81	1574	1557.8	10.11	1572	1556.17	11.36	1575	1554.37	10.03
		2op	1566	1559.23	3.83	1572	1556.17	9.93	1571	1555.2	9.71	1568	1556.73	8.17

Table A.2824: f_{50_315} : basicRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1580	1560.03	8.83	1577	1557.63	10.6	1573	1556.2	10.9	1573	1554.37	9.79
		2op	1568	1559.13	4.86	1572	1557.97	10.12	1572	1555.4	10.01	1575	1554.4	12.39
	50	rnd	1574	1560.43	8.35	1569	1556.83	8.22	1572	1555.37	10.31	1579	1553.9	12.96
51	20	2op	1571	1561.03	5.96	1573	1559	8.67	1569	1556.2	9.26	1575	1553.43	11.96
		rnd	1578	1559.6	8.32	1574	1558.5	10.5	1567	1553.13	9.24	1575	1554.83	11.43
	50	2op	1564	1557.27	2.94	1570	1555.3	9.81	1570	1557.23	7.71	1575	1559.77	9.31
	50	rnd	1572	1559.27	7.11	1579	1559.83	9.26	1577	1558	12.4	1568	1551.93	11.06
		2op	1568	1560.2	4.04	1577	1561.8	7.79	1575	1558.67	9.67	1575	1553.63	13.93

Table A.2825: f_{50_315} : transRRGA+IM – Suspected Optimal is 1581

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1571	1554.53	10.27	1566	1556.33	8.01	1567	1548.9	12.77	1568	1548.6	13.65
		2op	1567	1549.57	8.92	1573	1554.37	7.61	1568	1551.67	9.87	1563	1547.33	13.53
	50	rnd	1569	1550.83	9.43	1568	1557.63	7.41	1569	1551.83	11.69	1566	1549.47	12.57
51	20	rnd	1569	1547.93	11.3	1569	1556.73	6.38	1567	1552.8	8.72	1566	1548.43	12.33
		2op	1569	1552.3	10.6	1570	1555.93	8.45	1568	1558.37	6	1568	1557.4	8.05
	50	rnd	1563	1547.47	11.96	1568	1555.9	7.83	1564	1555.77	6.31	1566	1552.7	11.4
	20	rnd	1571	1552.13	11.09	1570	1558.13	7.69	1570	1558.17	8.35	1569	1554.37	9.71
		2op	1568	1552.13	10.2	1573	1556.83	8.49	1570	1557.63	8.7	1566	1551.87	9.16

Table A.2826: $f_{50.412}$: basicRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1556.17	9.87	1571	1557.6	7.92	1569	1553.53	12.01	1567	1550.57	11.1
		2op	1569	1551.73	9.63	1567	1556.37	5.37	1568	1554.4	10.35	1572	1551	10.02
	50	rnd	1571	1556	8.23	1570	1558.8	7.09	1570	1557.5	8.05	1567	1555.23	8
51	20	rnd	1569	1550.67	11.15	1573	1557.93	6.65	1569	1555.87	7.12	1567	1550.9	11.15
		2op	1565	1551.03	9.67	1573	1558.67	7.17	1567	1557	8.35	1571	1549.8	11.84
	50	rnd	1570	1554.43	7.41	1567	1557.27	7.42	1570	1560.33	5.7	1568	1553.57	12.44
	20	rnd	1568	1553.5	9.8	1567	1557.53	7.83	1570	1559.33	5.2	1567	1551.9	8.88
		2op	1568	1553.5	9.8	1567	1557.53	7.83	1570	1559.33	5.2	1567	1551.9	8.88

Table A.2827: $f_{50.412}$: transRRGA – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1551.13	8.68	1569	1554.53	7.07	1571	1556.1	9.35	1571	1549.63	12.53
		2op	1563	1550.93	7.22	1569	1556.93	7.19	1568	1548.43	10.5	1567	1545.73	10.3
	50	rnd	1567	1551.43	13.58	1569	1555.67	7.89	1564	1552.17	7.78	1568	1551.87	10.18
51	20	rnd	1566	1549.5	10.47	1566	1553	7.78	1565	1552.13	9	1566	1547.33	11.38
		2op	1565	1551.8	7.75	1567	1556.5	6	1569	1557.37	7.28	1567	1553.77	9.66
	50	rnd	1565	1547.57	12.65	1572	1554.1	9.85	1570	1555.1	9.91	1570	1551.03	11.28
	20	rnd	1570	1554.23	10.85	1571	1558.7	6.51	1568	1558.97	6.73	1568	1553.97	9.13
		2op	1566	1551	11.35	1568	1558.27	6.2	1570	1555.9	7.76	1566	1551.07	10.23

Table A.2828: $f_{50.412}$: basicRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1568	1554	10.24	1569	1558.37	7.42	1568	1554.7	7.25	1565	1551.9	8
		2op	1572	1554.13	7.66	1571	1560.13	6.69	1568	1555.17	8.82	1564	1551.03	11.25
	50	rnd	1573	1556.6	9.13	1570	1559.27	5.75	1567	1556.67	7.16	1570	1550.17	11.53
51	20	rnd	1567	1552.67	8.72	1567	1557.1	7.16	1566	1555.47	6.86	1565	1552.47	9.94
		2op	1565	1553.63	6.56	1568	1554	9.55	1569	1557.6	5.12	1564	1555.9	6.66
	50	rnd	1565	1551	12.4	1571	1555.87	8.64	1569	1557.13	8.29	1570	1552.13	10.86
	20	rnd	1565	1554.97	8.61	1568	1557.37	8.72	1569	1560.33	6.04	1570	1556.93	12.64
		2op	1566	1552.17	11	1569	1559.07	7.93	1567	1558.77	5.63	1568	1551.93	9.92

Table A.2829: f_{50_412} : transRRGA+RS – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1567	1552.4	9.35	1566	1545.3	14.45	1567	1550.77	10.08	1562	1549.33	8.25
		2op	1569	1548.2	11.8	1568	1546.4	12.74	1569	1545.53	13.7	1565	1543.73	13.87
	50	rnd	1569	1555.37	9.33	1565	1550.77	8	1567	1548.2	12.77	1567	1544.13	16.11
51	20	rnd	1570	1552.47	9.5	1569	1549.73	13.76	1568	1546.43	13.97	1565	1547.7	11.05
		2op	1567	1555.93	8.07	1565	1547.5	11.73	1567	1550.13	10.75	1565	1544.67	12.92
	50	rnd	1564	1552.63	7.39	1566	1546.53	11.78	1571	1548.43	10.46	1560	1547.13	9.39
	20	rnd	1566	1553.63	8.43	1563	1548.43	11.06	1568	1551.17	10.2	1568	1544.33	11.08
		2op	1565	1553.77	8.84	1566	1551.73	9.69	1562	1547.3	8.36	1564	1546.27	12.31

Table A.2830: f_{50_412} : basicRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1554.07	9.34	1565	1547.93	11.1	1569	1551.87	11.84	1564	1549.07	13.43
		2op	1569	1551.17	12.39	1563	1547.87	9.01	1571	1545.63	12.99	1564	1548.67	10.01
	50	rnd	1570	1554.13	8.27	1561	1547.27	11.88	1569	1551.3	10.72	1566	1547.83	11.65
51	20	rnd	1570	1553.83	9.66	1569	1551.73	9.09	1564	1550.6	9.52	1565	1544.8	13.15
		2op	1572	1557.4	8.33	1569	1551.63	10.8	1563	1545.23	11.85	1564	1546.8	8.97
	50	rnd	1564	1554.07	7.32	1565	1547.37	11.77	1571	1548.17	12.86	1568	1551.57	10.04
	20	rnd	1567	1555.73	8.68	1568	1553.87	10.64	1566	1548.8	13.39	1568	1547.2	14.16
		2op	1565	1557.07	6.92	1567	1554.93	9.1	1567	1551.67	11.32	1571	1549.8	9.25

Table A.2831: f_{50_412} : transRRGA+IM – Suspected Optimal is 1573

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1565	1548.9	9.59	1567	1552.17	8.4	1566	1547.13	9.92	1562	1548.53	9.38
		2op	1566	1549.67	7.59	1562	1548.67	7.97	1563	1548.93	8.22	1562	1548.37	5.87
	50	rnd	1563	1551.03	6.89	1563	1549.8	8.89	1565	1550.67	9.11	1563	1547.37	9.08
51	20	2op	1565	1552.93	8.17	1565	1552.7	7.52	1568	1553.37	8.74	1565	1550.23	8.85
		rnd	1562	1549.4	7.76	1565	1553.23	6.25	1567	1552.13	7.4	1565	1548.73	7.62
	50	2op	1563	1549.83	6.74	1565	1552.63	6.11	1570	1552.67	6.63	1564	1552.93	6.52
	20	rnd	1562	1550.03	8.13	1567	1551.5	8.61	1568	1550.87	7.04	1566	1551.83	8.24
		2op	1565	1550.8	5.65	1564	1551.83	6.22	1568	1555.33	7.73	1564	1552.63	7.58
	50	rnd	1562	1550.03	8.13	1567	1551.5	8.61	1568	1550.87	7.04	1566	1551.83	8.24

Table A.2832: f_{50_498} : basicRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1565	1548.93	9.71	1567	1554.93	6.02	1568	1551.27	8.17	1566	1551.77	7.05
		2op	1563	1551.07	7.24	1568	1555.57	7.82	1568	1551.1	7.87	1563	1550.47	7.3
	50	rnd	1563	1550.3	8.42	1565	1552.93	5.75	1566	1551.03	8.73	1563	1550.4	10.19
51	20	2op	1568	1553.6	8.93	1565	1554.47	8.17	1570	1553.6	7.29	1566	1553.7	8.33
		rnd	1565	1553.03	6.31	1566	1554.5	6.25	1565	1553.17	7.48	1564	1551.43	9.81
	50	2op	1565	1550.67	6.21	1566	1553.17	6.51	1561	1552.53	4.49	1566	1554.8	6.36
	20	rnd	1561	1550.2	8.27	1564	1551.47	6.74	1568	1554.33	7.29	1564	1551.2	7.38
		2op	1565	1551.17	6.8	1566	1554.4	6.4	1568	1554.3	7.26	1566	1554.53	6.82
	50	rnd	1561	1550.2	8.27	1564	1551.47	6.74	1568	1554.33	7.29	1564	1551.2	7.38

Table A.2833: f_{50_498} : transRRGA – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1566	1545.4	10.58	1564	1552.3	9.03	1568	1550.9	9.95	1563	1552.03	7.16
		2op	1566	1548.93	7.85	1570	1552.5	8.58	1565	1550.1	7.45	1562	1545.57	8.83
	50	rnd	1561	1549.1	8.3	1566	1548.27	8.65	1563	1551.67	6.79	1564	1548.17	9.13
51	20	2op	1566	1552.97	6	1562	1549.27	9.59	1563	1552.1	7.47	1559	1547.4	6.46
		rnd	1566	1550.07	7.94	1564	1553.2	7.11	1564	1553.67	6.5	1566	1550.13	9.13
	50	2op	1561	1550.47	5.31	1563	1551.4	5.78	1565	1551.13	7.4	1564	1549.63	8.04
	20	rnd	1565	1551.57	7.84	1561	1550.87	6.38	1566	1552.7	7.46	1563	1552.17	7.26
		2op	1557	1548.2	7.37	1563	1549.3	5.84	1563	1554.23	5.71	1562	1548.93	9.34
	50	rnd	1565	1551.57	7.84	1561	1550.87	6.38	1566	1552.7	7.46	1563	1552.17	7.26

Table A.2834: f_{50_498} : basicRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1551.17	10.61	1564	1552.2	7.83	1565	1552.57	7.86	1564	1552	8.23
		2op	1566	1548.6	7.29	1570	1554.67	7.63	1565	1552.9	7.57	1568	1551.87	7.99
	50	rnd	1565	1548.67	9.61	1566	1552.97	6.65	1564	1552.9	6.84	1568	1553.33	9.47
		2op	1568	1554.47	6.84	1567	1552.1	9.87	1565	1554.37	7.14	1570	1551.33	8.36
51	20	rnd	1562	1549.73	9.64	1567	1552.7	8.13	1565	1548.5	8.06	1566	1553.67	6.92
		2op	1559	1549.87	5.75	1566	1550.5	6.95	1568	1550.6	7.05	1567	1553.53	6.29
	50	rnd	1563	1550.67	7.41	1568	1552.63	8.48	1566	1553.9	7.67	1564	1550.37	7.71
		2op	1566	1548.2	9.5	1564	1551.93	6.91	1565	1553.43	5.92	1561	1551.8	7.42

Table A.2835: f_{50_498} : transRRGA+RS – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1564	1552	7.43	1565	1549.73	7.8	1559	1546.63	10.13	1564	1545.47	9.92
		2op	1564	1549.33	6	1566	1549.3	9.06	1565	1546.9	10.94	1564	1550.57	10.16
	50	rnd	1566	1549.8	7.6	1559	1542.23	11.52	1564	1549.03	7.2	1565	1547.83	10.76
		2op	1561	1552.3	5.34	1568	1549.03	8.72	1563	1550.3	8.54	1563	1545.1	10.51
51	20	rnd	1561	1548.73	6.11	1565	1545.73	10.73	1565	1550.03	8.39	1562	1547.43	9.16
		2op	1548	1548	0	1565	1549.4	9.93	1562	1547.07	11.2	1567	1546.8	9.03
	50	rnd	1567	1551.77	7.67	1566	1551.23	9.17	1564	1549.07	9.01	1565	1544.43	8.69
		2op	1552	1548.23	1.28	1564	1550.5	8.73	1565	1550.07	9.6	1560	1548.1	7.26

Table A.2836: f_{50_498} : basicRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	1570	1553.67	8.95	1564	1548.6	9.1	1562	1544.93	10.63	1564	1546.63	10.4
		2op	1564	1550.23	5.94	1570	1550.03	8.41	1565	1549.87	8.02	1560	1543.77	11.45
	50	rnd	1567	1548.97	7.3	1563	1547.77	9.41	1565	1546.33	10.56	1565	1548.9	9.03
		2op	1561	1552.23	4.86	1565	1547.87	13.4	1564	1547.8	10.89	1561	1546.67	10.6
51	20	rnd	1565	1551.07	7.95	1560	1549.4	8.93	1570	1549.73	8.46	1560	1547.97	8.91
		2op	1550	1548.07	0.37	1563	1550.63	9.31	1563	1549.27	8.41	1564	1546.33	10.61
	50	rnd	1567	1550.67	7.83	1564	1550.7	7.46	1562	1548.13	9.82	1564	1548.23	9.33
		2op	1553	1548.53	1.68	1562	1550.07	6.24	1565	1548.07	10.09	1565	1550.07	9.25

Table A.2837: f_{50_498} : transRRGA+IM – Suspected Optimal is 1570

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2768	2747.83	11.83	2772	2744.87	14.83	2762	2743.93	13.8	2766	2739.37	13.17
		2op	2765	2746.77	12.1	2778	2750.53	12.78	2765	2743.4	10.95	2770	2746.83	11.04
	50	rnd	2776	2742.5	16.83	2772	2744.37	15.08	2764	2748.4	10.75	2768	2744.77	11.49
51	20	rnd	2765	2746.43	12.95	2770	2745.93	13.67	2772	2747.93	11.12	2779	2744.03	13.02
		2op	2771	2745	14.83	2772	2750.13	11.09	2769	2749	9.79	2778	2748.47	15.22
	50	rnd	2781	2755.7	11.15	2776	2754.9	11.05	2768	2753.5	10.38	2768	2747.67	14.13
	20	rnd	2766	2744.97	15.14	2771	2754.07	9.18	2773	2748.67	12.47	2772	2743.6	14.52
		2op	2768	2751.73	12.76	2782	2754.8	10.77	2771	2753.47	11.27	2769	2751.3	12.21

Table A.2838: f_{100_307} : basicRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2772	2749.1	12.23	2771	2750.1	11.7	2777	2750.07	11.24	2764	2742.63	12.94
		2op	2771	2748.67	10.93	2778	2754.67	13.31	2778	2754.03	12.08	2769	2748.37	15.1
	50	rnd	2768	2746.17	11.72	2774	2748.03	13.37	2766	2746.67	11.79	2768	2747.07	11.82
51	20	rnd	2771	2751.67	10.12	2774	2751.37	9.98	2772	2751.83	10.06	2769	2750.3	11.9
		2op	2772	2744.43	11.93	2769	2749.73	8.99	2767	2747.23	12.49	2764	2745.73	11.66
	50	rnd	2777	2756.5	11.57	2774	2757.73	10.46	2771	2755.87	10.15	2769	2752.73	10.29
	20	rnd	2773	2748.9	12.96	2764	2752.67	8.11	2774	2749.3	11.91	2768	2746.9	10.46
		2op	2778	2757.47	14.39	2777	2754.6	14.4	2771	2752.33	15.48	2775	2750.67	10.87

Table A.2839: f_{100_307} : transRRGA – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2762	2742.03	11.85	2767	2742.27	14.32	2768	2739.07	15.51	2763	2742.57	13.22
		2op	2766	2752.53	9.57	2776	2748.37	11.64	2778	2738.13	17.91	2765	2744.17	10.8
	50	rnd	2777	2748.23	13.11	2771	2749.2	9.94	2764	2744.67	11.49	2767	2743.97	13.95
51	20	rnd	2776	2750.93	12.34	2774	2748.13	10.09	2765	2747.37	11.18	2756	2740.67	11.18
		2op	2770	2750.3	13.23	2767	2744.57	12.46	2771	2746.6	12.15	2772	2741.1	14.65
	50	rnd	2773	2751.5	12.32	2776	2752.4	11.12	2780	2751.63	12.4	2779	2746.87	12.66
	20	rnd	2770	2747.83	12.02	2771	2746.87	11.77	2765	2748.2	10.25	2762	2742.8	13.26
		2op	2775	2756.47	13.17	2775	2752.13	11.77	2768	2750.73	13	2766	2748.67	10.9

Table A.2840: f_{100_307} : basicRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2769	2748.9	13.02	2772	2751.5	10.45	2772	2745.2	14.98	2762	2744.4	13.74
		2op	2779	2753.13	11.59	2777	2751.87	12.63	2772	2752.7	10.65	2775	2747.6	14.13
	50	rnd	2773	2748.33	10.38	2769	2749.27	10.92	2770	2747.43	13.28	2777	2751.43	14.75
51	20	2op	2776	2751.43	10.02	2773	2757.27	11.4	2773	2752.73	12.16	2773	2746.2	12.6
		rnd	2771	2743.77	12.6	2774	2750.67	12.39	2770	2747.9	11.29	2770	2745.63	12.71
	50	2op	2775	2756.37	8.98	2775	2755.97	9.81	2780	2755.4	9.76	2773	2755.03	10.72
	20	rnd	2773	2745.37	11.48	2778	2751.07	12.09	2770	2749	9.59	2774	2749.13	12.59
		2op	2772	2757.4	9.38	2770	2755.83	8.69	2768	2753.67	10.34	2776	2754.07	11.37

Table A.2841: f_{100_307} : transRRGA+RS – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2778	2748.17	13.48	2768	2740.43	14.1	2772	2742.67	12.2	2772	2742.73	14.29
		2op	2770	2755.93	10.85	2761	2738.1	16.16	2768	2740.8	11.86	2769	2741.53	16.7
	50	rnd	2772	2750.67	12.01	2768	2739.57	14.95	2769	2745.83	12.96	2757	2737.6	16.6
51	20	2op	2782	2752.43	9.47	2763	2742.37	14.11	2777	2746.23	16.86	2771	2740.9	15.27
		rnd	2766	2747.47	11.6	2770	2741.47	15.31	2769	2736.83	16.02	2767	2742.13	13
	50	2op	2772	2762.73	4.25	2768	2741.57	17.08	2778	2745.6	16.62	2768	2742.47	12.84
	20	rnd	2773	2749.07	11.12	2758	2740.13	11.31	2766	2741.67	14.1	2760	2738.57	11.83
		2op	2777	2763.5	6.39	2766	2743.1	12.93	2765	2739.27	12.92	2769	2739.03	16.13

Table A.2842: f_{100_307} : basicRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2777	2750.97	11.48	2769	2743.63	14.3	2767	2738.43	14.79	2766	2743.37	14.11
		2op	2778	2756.37	8.39	2769	2744.83	11.37	2761	2744.57	12.43	2770	2743.37	13.81
	50	rnd	2767	2744.37	13.18	2761	2744.1	12.57	2770	2743.5	11.34	2759	2741.87	10
51	20	2op	2777	2752.87	12.12	2777	2743.73	16.26	2770	2740.63	12.55	2767	2741.8	14.63
		rnd	2774	2749.3	13.47	2764	2744.23	9.9	2766	2742.33	13.89	2768	2742.9	10.19
	50	2op	2775	2763.8	5.5	2768	2743.27	17.11	2774	2744.33	15.16	2766	2740.07	13.5
	20	rnd	2782	2750.33	12.92	2771	2745.5	11.67	2766	2739.1	13.7	2768	2738.07	16.49
		2op	2776	2763.23	7.19	2770	2750.27	18.03	2771	2740.37	18.28	2766	2744.73	12.54

Table A.2843: f_{100_307} : transRRGA+IM – Suspected Optimal is 2793

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2832	2813.97	12.89	2842	2821.17	12.53	2839	2817.53	14.8	2833	2810.73	13.61
		2op	2841	2815.67	12.83	2839	2813.2	13.15	2837	2814.2	14.9	2840	2813.13	14.71
	50	rnd	2841	2814.77	12.04	2849	2811.8	13.35	2847	2817.03	12.88	2839	2814.13	13.58
51	20	2op	2839	2815.4	12.13	2833	2814.1	12.46	2838	2814.67	14.57	2843	2816.47	13.21
		rnd	2849	2817.67	11.94	2840	2819.8	12.17	2840	2812.93	15.79	2834	2816.67	9.59
	50	2op	2844	2811.3	14.82	2837	2812.97	11.97	2838	2810.3	14.97	2838	2812.97	14.91
	20	rnd	2841	2818.63	13.23	2850	2817.03	15.89	2840	2813.37	13.98	2833	2814.77	10.1
		2op	2839	2814.83	14.08	2843	2815.37	12.4	2834	2813.57	13.63	2833	2813.37	12.12

Table A.2844: $f_{100.415}$: basicRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2813.9	15.03	2844	2820.93	13.69	2842	2822.97	13.45	2843	2815.97	13.37
		2op	2842	2812.9	14.97	2839	2819.4	10.86	2840	2815.53	9.98	2834	2814.57	13.88
	50	rnd	2837	2817.47	12.48	2838	2820.53	9.23	2841	2817.03	13.9	2843	2818.33	13.35
51	20	2op	2844	2818.73	13.48	2835	2814.67	13.24	2843	2818.47	13.48	2838	2815.2	15.1
		rnd	2837	2818.93	12.65	2835	2821.73	10.11	2843	2818.67	14.64	2838	2816.2	14.11
	50	2op	2848	2808.7	17.81	2833	2817.27	7.44	2848	2813.37	17.13	2833	2813.9	10.3
	20	rnd	2841	2817.7	10.68	2840	2818.9	13.16	2851	2821.47	11.07	2844	2823.1	11.85
		2op	2833	2812.57	12.94	2842	2815.03	12.2	2848	2815.5	13.54	2845	2818.93	14.59

Table A.2845: $f_{100.415}$: transRRGA – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2841	2815.6	13.55	2837	2815.57	13.8	2838	2814.83	13.44	2844	2815.2	12.97
		2op	2839	2813.3	12.56	2837	2815.5	12.61	2836	2812.87	14.63	2840	2811.47	14.95
	50	rnd	2840	2815.8	13.98	2841	2815.9	11.65	2846	2811.23	16.26	2845	2810.4	15.16
51	20	2op	2841	2813.8	13.24	2837	2814.97	10.8	2836	2813.93	12.78	2835	2814.03	12.68
		rnd	2842	2817.73	14.24	2843	2818.37	13.89	2835	2814.7	11.27	2837	2814.57	13.35
	50	2op	2832	2810.43	13.1	2832	2813.03	10.41	2833	2808.43	13.79	2836	2815.77	11.23
	20	rnd	2837	2816.87	14.41	2845	2815.5	13.07	2844	2820.8	11.3	2830	2815.53	9.5
		2op	2835	2811.2	11.97	2834	2812.73	11.64	2845	2816.8	11.03	2845	2814.03	11.64

Table A.2846: $f_{100.415}$: basicRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2839	2816.37	12.22	2838	2820.97	14.86	2841	2822.33	12.17	2835	2815.47	13.53
		2op	2838	2818.8	13.11	2842	2820.03	9.17	2842	2818.6	13.05	2839	2814.87	12.76
	50	rnd	2840	2817.97	12.23	2843	2820.5	10.13	2841	2820.23	13.71	2840	2817.53	15.34
51	20	2op	2849	2817.43	14.57	2840	2817.7	13.21	2836	2815.67	15.32	2846	2815.73	13.44
		rnd	2838	2818	10.81	2848	2825.5	10.62	2841	2819.7	13.43	2843	2820.27	13
	50	2op	2833	2810.47	12.19	2847	2817.37	13.33	2834	2813.67	10.8	2840	2817.67	14.45
	50	rnd	2839	2815.5	12.74	2838	2821.5	13.32	2841	2822.3	11.66	2838	2821.73	11.81
		2op	2846	2813.9	13.78	2841	2819.33	9.73	2842	2818.33	14.1	2844	2819.47	10.43

Table A.2847: f_{100_415} : transRRGA+RS – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2838	2817.37	14.93	2830	2813.77	11.4	2841	2809.7	18.07	2832	2810.5	13.15
		2op	2834	2811.93	9.95	2841	2811.37	13.42	2831	2805.8	13.64	2836	2810.17	13.33
	50	rnd	2848	2821.37	14.53	2836	2810.57	11.68	2835	2814.27	12.07	2842	2814.37	12.53
51	20	2op	2833	2812.1	10.66	2840	2817.47	12.68	2833	2810.67	13.66	2835	2809.8	11.89
		rnd	2845	2818	13.83	2836	2810.67	12.83	2840	2817.93	12.78	2838	2810.47	13.56
	50	2op	2831	2810.7	6.37	2836	2810.5	15.11	2835	2812.53	12.98	2824	2806.87	15.59
	50	rnd	2849	2820.33	9.75	2827	2810.13	14.55	2837	2812.9	12.41	2839	2814.03	13.07
		2op	2845	2813.8	10.55	2837	2808.77	11.63	2836	2812.93	12.35	2840	2812.43	12.96

Table A.2848: f_{100_415} : basicRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2843	2818.53	12.83	2843	2813.67	12.56	2827	2812.93	11.8	2836	2817.33	11.5
		2op	2841	2815.03	14.06	2827	2814.2	9.59	2842	2811.87	13.95	2839	2815.3	13.3
	50	rnd	2841	2816.57	12.71	2836	2819.3	11.89	2842	2810.73	16.62	2842	2811.2	13.42
51	20	2op	2833	2815.2	11.82	2830	2811.73	11.01	2847	2816.93	15.01	2832	2812.93	12.61
		rnd	2836	2817.2	11.57	2830	2811.73	14.43	2832	2814.33	12.34	2836	2812.73	16.98
	50	2op	2830	2807.93	8.01	2843	2814.23	14.7	2835	2818.17	14.88	2836	2812.8	14.01
	50	rnd	2842	2817.73	14.1	2840	2820.8	10.11	2840	2817.03	13.6	2833	2811.07	13.29
		2op	2845	2815.83	10.94	2841	2818.27	11.96	2825	2812.83	9.03	2840	2809.8	14.65

Table A.2849: f_{100_415} : transRRGA+IM – Suspected Optimal is 2860

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2705	2685.57	11.39	2709	2683.97	12.77	2712	2690.27	11.08	2705	2681.97	10.03
		2op	2710	2693.53	8.99	2718	2691.83	11.77	2709	2689.3	11.06	2710	2687.33	12.62
	50	rnd	2708	2685.83	11.39	2707	2689.37	11.27	2702	2683.83	12.47	2709	2692.33	9.98
51	20	rnd	2706	2687.37	11.02	2703	2684.2	9.24	2709	2688.9	12.55	2708	2690.03	11.34
		2op	2711	2686.73	15.75	2714	2689.47	11.34	2713	2693	12.3	2712	2689.47	12.88
	50	rnd	2708	2691.7	10.49	2718	2692.17	9.65	2711	2693.8	11.6	2710	2687.67	13.17
	20	rnd	2708	2690.03	11.82	2718	2691.37	11.57	2711	2689.23	13.63	2704	2687.33	11.98
		2op	2706	2690.9	8.01	2705	2686.7	11.88	2714	2690	11.61	2709	2689.8	10.92

Table A.2850: f_{100_512} : basicRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2707	2687.37	11.79	2718	2693.83	10.54	2711	2690.27	11.59	2708	2689.7	10.84
		2op	2708	2691.87	12.81	2712	2690.83	9.59	2707	2691.3	10.8	2709	2692.23	10
	50	rnd	2708	2686.6	13.19	2709	2691.4	9.73	2713	2690.33	14.58	2718	2691.83	11.04
51	20	rnd	2708	2693.33	9.2	2711	2691.33	10.4	2710	2694.27	9.21	2708	2691.87	10.25
		2op	2710	2688.93	13.02	2721	2690.6	11.1	2710	2693.4	9.89	2711	2691.33	9.52
	50	rnd	2710	2695.47	8.54	2713	2693.6	13.47	2716	2696.1	10.6	2709	2695.13	8.7
	20	rnd	2718	2691.7	14.18	2714	2692.27	11.38	2711	2691.8	10.61	2708	2689.43	9.61
		2op	2713	2692.83	10.54	2710	2697.17	7.65	2714	2697.1	8	2707	2694.33	9.79

Table A.2851: f_{100_512} : transRRGA – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2711	2685.97	12.92	2708	2690.43	14.41	2705	2683.3	12.86	2712	2686.6	13.04
		2op	2707	2689.1	11.19	2714	2692.43	12.88	2715	2692.27	12.97	2706	2688.7	11.28
	50	rnd	2709	2690.13	11.87	2708	2686.57	14.1	2708	2689.37	9.38	2714	2689.1	10.11
51	20	rnd	2711	2688.83	10.28	2714	2693.07	9.51	2715	2692.13	11.52	2713	2686.97	12.32
		2op	2707	2687.93	14.84	2706	2692	9.58	2712	2686.2	13.22	2699	2680.77	10.74
	50	rnd	2709	2691	10.09	2711	2694.47	9.75	2715	2688.6	10.91	2712	2691.63	10.54
	20	rnd	2715	2690.47	10.72	2720	2690.73	13.63	2708	2687.67	12.64	2716	2690.1	15.37
		2op	2704	2690.43	8.18	2713	2691.1	9.56	2708	2690.83	12.87	2703	2687.9	10.11

Table A.2852: f_{100_512} : basicRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2711	2692.03	10.55	2716	2696.23	12.03	2715	2691.83	10.58	2713	2693.97	10.27
		2op	2708	2689.87	9.92	2713	2693.13	10.55	2710	2692.37	8.26	2710	2689.27	11.71
	50	rnd	2705	2687.9	11.23	2707	2696.5	8.6	2706	2689.43	9.89	2709	2692.8	9.71
51	20	rnd	2710	2694.3	10.52	2708	2692.63	10.84	2712	2692.4	9.85	2710	2690.67	12.24
		2op	2709	2693	9.83	2709	2688.2	11.31	2711	2689.57	12.43	2710	2690.23	9.45
	50	rnd	2708	2691.63	10.89	2706	2693.1	9.56	2713	2694.83	9.94	2714	2696.73	9.43
	20	rnd	2708	2685.83	12.99	2717	2692.33	12.53	2708	2687.03	12.25	2707	2692.47	10.27
		2op	2708	2692.07	10.91	2708	2696.4	7.28	2708	2692.6	9.5	2707	2690.77	8.59

Table A.2853: f_{100_512} : transRRGA+RS – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2706	2690.9	10.21	2704	2681.9	13.92	2704	2687.97	9.12	2708	2683.53	14.26
		2op	2721	2694.27	10.79	2710	2686.7	14.29	2711	2684.73	12.24	2705	2684.4	14.18
	50	rnd	2709	2687.87	10.6	2698	2681.1	9.49	2711	2688.2	12.75	2710	2684.07	15.42
51	20	rnd	2710	2691.2	10.19	2706	2683.33	13.15	2706	2686.73	11.76	2709	2689.33	11.2
		2op	2708	2689.6	12	2703	2681.37	14.98	2705	2690.23	10.96	2712	2687.5	10.99
	50	rnd	2705	2698	4.14	2709	2680.2	14.01	2716	2685.57	16.39	2703	2682.8	13.07
	20	rnd	2706	2692.9	8.75	2704	2684.7	12.92	2714	2681.53	13.63	2708	2683.33	13.39
		2op	2711	2694.83	7.73	2710	2689.37	11.26	2705	2688.07	11.23	2708	2685.03	11.79

Table A.2854: f_{100_512} : basicRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	2709	2692.2	9.21	2709	2688.4	13.28	2708	2686.6	11.93	2714	2690.03	12.14
		2op	2715	2698.3	10.89	2711	2684.87	14.63	2710	2683.37	12.72	2713	2685.23	15.24
	50	rnd	2711	2689.9	13.84	2710	2686.77	13.3	2713	2691.8	10.16	2710	2687.03	13.35
51	20	rnd	2708	2691.2	8.79	2706	2684.2	11.69	2704	2686.67	12.15	2712	2689.33	13.64
		2op	2706	2688.4	10.8	2705	2688.1	8.59	2708	2685.73	11.67	2714	2684.17	15.71
	50	rnd	2715	2697.47	5.07	2716	2688.4	12.53	2705	2687.23	11.53	2714	2686.37	8.82
	20	rnd	2710	2686.17	15.61	2708	2686.97	15.13	2713	2688.93	9.7	2701	2683.17	10.57
		2op	2708	2695.83	7.74	2706	2688.1	12.32	2711	2685.67	12.73	2704	2686.2	12.25

Table A.2855: f_{100_512} : transRRGA+IM – Suspected Optimal is 2732

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17859	17811.77	34.2	17907	17817.9	36.6	17848	17792	35.69	17865	17800.23	43.21
		2op	17880	17807.17	34.5	17879	17808.53	38.43	17857	17789.9	43.55	17886	17808.03	39.61
	50	rnd	17896	17808.23	45.61	17893	17797.1	36.89	17887	17815.33	37.37	17893	17801.9	43.26
51	20	rnd	17850	17804.03	27.49	17900	17813.03	34.02	17860	17805.93	32.34	17868	17796.13	36.88
		2op	17877	17814.97	38.87	17911	17825.93	37.45	17894	17816.6	38.73	17860	17802.3	37.45
	50	rnd	17899	17819.1	43	17892	17833.43	33.22	17867	17810.67	34.26	17861	17807.87	33.35
	20	rnd	17883	17807.93	39.47	17873	17808.63	37.9	17862	17809.73	30.91	17860	17806.17	39.24
		2op	17890	17820.83	37.68	17893	17820.13	35.24	17875	17821.4	32.11	17888	17811.17	36.59

Table A.2856: f_{508_354} : basicRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17916	17815.63	41.11	17895	17837.57	31.03	17880	17837.63	29.51	17896	17831.87	35.47
		2op	17918	17834.7	34.22	17906	17839.73	32.94	17913	17846.47	29.03	17886	17834.23	31.5
	50	rnd	17868	17825.73	30.76	17888	17837.03	33.09	17896	17838.63	30.44	17915	17829.6	30.69
51	20	rnd	17897	17833.03	32.02	17908	17841.87	36	17912	17851.5	30.06	17868	17828.3	27.37
		2op	17868	17817.3	36	17893	17841.7	34.69	17884	17824.6	39.03	17918	17837.27	33.26
	50	rnd	17905	17845.27	32.68	17919	17858.7	31.56	17951	17835.43	37.45	17907	17847.1	33.83
	20	rnd	17876	17824.77	38.03	17884	17822.8	37.02	17894	17843.1	38.07	17878	17837.3	25.83
		2op	17888	17832.4	32.24	17928	17849.23	31.32	17901	17843.03	31.69	17910	17840.4	33.57

Table A.2857: f_{508_354} : transRRGA – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17872	17803.87	35.42	17887	17805.9	36.3	17852	17801.93	38.03	17855	17805.77	28.59
		2op	17896	17813.63	31.46	17925	17815.53	44.03	17887	17798.2	40.24	17872	17809	33.79
	50	rnd	17880	17804.47	32.65	17891	17811.1	43.95	17852	17787.1	35.05	17890	17792.77	40.3
51	20	rnd	17884	17820.53	37.95	17865	17810.53	34.05	17873	17800.93	45.7	17849	17799.77	28.57
		2op	17898	17815.3	39.06	17911	17806.17	46.73	17881	17793.57	41.93	17889	17799.33	44.82
	50	rnd	17929	17833.63	36.21	17881	17817.37	35.35	17913	17820.9	44.48	17868	17803.83	32.46
	20	rnd	17910	17821.23	29.55	17894	17819.47	30.56	17915	17802.8	39.57	17892	17809.33	39.27
		2op	17885	17819.9	32.3	17853	17814.03	28.19	17906	17822.03	42.92	17862	17805.5	34.04

Table A.2858: f_{508_354} : basicRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17885	17823.47	25.8	17893	17840.37	37.3	17883	17837.1	28.55	17888	17819	31.09
		2op	17902	17850.2	38.64	17917	17844.87	40.74	17903	17839.17	33.19	17899	17837.17	30.77
	50	rnd	17906	17829.53	38.81	17906	17841.87	33.41	17894	17841.87	25.04	17908	17831.5	30.99
51	20	2op	17901	17840	34.95	17901	17844.03	33.58	17900	17834.97	31.36	17902	17827.87	27.9
		rnd	17927	17833.17	32.58	17883	17833.4	33.04	17889	17828.3	31.8	17886	17832.17	34.84
	50	2op	17902	17849	30.58	17900	17848.13	33.53	17917	17854.93	27.94	17926	17850.07	33.61
	50	rnd	17865	17817.73	32.71	17907	17835.77	34.44	17902	17848.77	27.65	17921	17836	35.31
		2op	17899	17838.1	33.99	17920	17847.73	28.65	17908	17848.5	30.77	17890	17844.87	30.08

Table A.2859: $f_{508.354}$: transRRGA+RS – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17878	17819.27	33.08	17839	17778.5	33.9	17850	17789.73	30.94	17865	17803.17	33.39
		2op	17899	17813.53	35.37	17856	17784.5	37.36	17875	17809.9	34.39	17872	17808	32.37
	50	rnd	17873	17805.43	28.73	17871	17803.97	34.43	17874	17784.4	37.8	17896	17785.6	53.64
51	20	2op	17877	17822.7	25.69	17861	17783.93	33.73	17859	17805.73	34.68	17865	17793.9	44.07
		rnd	17873	17838.5	21.96	17848	17796.13	28.1	17889	17792.67	36.3	17888	17800.3	41.11
	50	2op	17892	17839.3	30.15	17916	17806.8	47.45	17881	17798.47	41.98	17878	17804.17	36.29
	50	rnd	17881	17828.93	35.68	17863	17794.27	34.77	17855	17788.5	37.23	17865	17799.03	46.86
		2op	17872	17830.2	29.73	17860	17795.73	32.78	17881	17786.5	41.85	17863	17791.17	42.45

Table A.2860: $f_{508.354}$: basicRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	17883	17827.1	26.39	17911	17805.97	44.37	17888	17786.27	38.51	17869	17804.27	37.84
		2op	17892	17847.37	27.62	17878	17799.1	36.18	17884	17809.57	33.05	17914	17805.17	48.74
	50	rnd	17888	17824.83	32.82	17893	17815.73	43.04	17874	17815.93	44.74	17881	17791.7	42.7
51	20	2op	17901	17839.73	32.97	17884	17808.37	38.48	17868	17809.43	32.78	17890	17805.63	37.38
		rnd	17879	17830.43	29.17	17847	17806.9	29.88	17878	17806.83	34.02	17873	17797.73	35.78
	50	2op	17912	17844.63	28.88	17857	17797.8	32.32	17878	17805.53	42.42	17880	17806.57	32.69
	50	rnd	17921	17809.97	35.66	17861	17816.7	25.68	17883	17801.63	35.12	17922	17800.1	39.98
		2op	17907	17840.77	35.84	17884	17815.57	39.61	17868	17803.2	37.29	17889	17799.03	44.12

Table A.2861: $f_{508.354}$: transRRGA+IM – Suspected Optimal is 18112

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22155	22080.1	43.49	22169	22065.13	49.86	22134	22070.33	37.93	22174	22078.47	54.66
		2op	22149	22089.17	45.42	22163	22083.1	45.04	22145	22076.63	29.38	22183	22093.8	41.72
	50	rnd	22169	22080.63	46.6	22161	22079.13	44.43	22216	22089.43	54.35	22183	22080.9	47.37
51	20	rnd	22201	22102.8	36.44	22194	22089.97	48.24	22199	22095.03	46.61	22167	22081	37.84
		2op	22155	22091.7	36.78	22183	22084.5	40.38	22151	22076.77	42.03	22158	22080.83	43.82
	50	rnd	22210	22102.1	51.38	22192	22092.57	47.3	22167	22082.2	41.07	22162	22084.53	44.36
	20	rnd	22192	22091.7	34.97	22173	22097.27	46.83	22181	22084.17	46.56	22192	22081.17	53.02
		2op	22208	22098.77	35.05	22187	22091.5	43.04	22143	22090.47	39.02	22159	22093.97	34.2

Table A.2862: f_{635_350} : basicRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22212	22112.63	43.44	22191	22115	42.36	22183	22121.67	37.43	22184	22096.53	44.17
		2op	22184	22115.8	42.06	22199	22130.93	37.47	22194	22125.8	34.34	22190	22108.47	47.05
	50	rnd	22212	22111.03	41.99	22197	22117.73	44.4	22238	22139.9	46.65	22200	22122.03	39.27
51	20	rnd	22175	22118.2	30.11	22187	22118.07	39.36	22232	22130.9	47.36	22176	22127.93	29.23
		2op	22208	22113.23	41.15	22183	22118.27	39.83	22228	22124.07	45.43	22197	22125.73	42.9
	50	rnd	22183	22123.13	34.54	22195	22126.77	36.44	22232	22133.7	37.32	22192	22106.77	40.6
	20	rnd	22200	22109.77	46.4	22149	22096.47	35.87	22165	22108.43	38.38	22233	22123.4	40.63
		2op	22185	22121	32.01	22197	22129.4	34.95	22209	22129.37	48.77	22213	22128.33	42.95

Table A.2863: f_{635_350} : transRRGA – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22166	22085.3	38.72	22143	22073.17	36.45	22131	22066.53	38.02	22158	22070.87	42.73
		2op	22177	22096.33	44.16	22176	22096.17	37.5	22154	22076.83	40.74	22155	22100.9	46.39
	50	rnd	22178	22084.63	41.5	22167	22081.5	40	22131	22065.5	45.09	22173	22085.57	44.32
51	20	rnd	22186	22090.13	45.95	22143	22066.33	50.5	22130	22074.13	35.71	22168	22079.9	40.47
		2op	22219	22084.23	65.88	22159	22090.6	43.22	22185	22074.93	40.48	22177	22082.9	44.52
	50	rnd	22185	22108.83	42.01	22156	22093.57	31.31	22165	22082.43	32.69	22177	22092.3	37.44
	20	rnd	22190	22096.43	40.72	22157	22089.03	38.57	22161	22092.73	37.24	22165	22077.17	45.83
		2op	22201	22107.83	40.32	22168	22099.23	34.78	22186	22097.37	46.94	22149	22082.63	39.09

Table A.2864: f_{635_350} : basicRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22184	22101.07	38.87	22199	22129.1	35.15	22182	22114.5	37.84	22185	22105.7	42.99
		2op	22237	22124.2	44.96	22200	22122.33	34.08	22204	22121.17	41.95	22205	22115.37	47.21
	50	rnd	22197	22099.9	50.96	22164	22107.33	32.12	22173	22120.27	32.08	22164	22112.27	36.33
51	20	2op	22188	22128.57	35.07	22208	22138.2	33.49	22210	22121.9	39.39	22191	22127.77	30.55
		rnd	22183	22108.2	39.12	22192	22120.23	38.18	22220	22111.97	42.24	22190	22128.87	45.28
	50	2op	22210	22134.83	31.13	22207	22130	42.06	22263	22148.6	39.35	22190	22124.47	42.87
	20	rnd	22157	22105.93	27.98	22198	22112.2	41.3	22177	22107.73	36.07	22209	22122.07	43.69
		2op	22212	22130.1	43.66	22200	22130.43	33.83	22185	22123.83	35.87	22179	22131.23	30.01

Table A.2865: f_{635_350} : transRRGA+RS – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22173	22095.23	35.55	22162	22075.37	49.88	22123	22052.73	47.33	22149	22070.73	32.78
		2op	22184	22096.97	32.46	22181	22064.5	50.75	22125	22067.67	38.96	22161	22074.57	36.98
	50	rnd	22173	22096.07	38.01	22178	22057.97	58.99	22142	22071.27	45.13	22186	22075.57	42.91
51	20	2op	22184	22101.53	55.82	22140	22065.17	42.98	22168	22087.67	43.21	22163	22072.23	47.97
		rnd	22201	22128.73	33.28	22206	22063.53	52.77	22166	22072.03	45.48	22175	22078.3	46.18
	50	2op	22205	22121.1	37.56	22172	22096.2	46.72	22156	22071.07	48.2	22125	22061.67	44.29
	20	rnd	22154	22086.7	40.36	22213	22099.13	44.14	22167	22081.43	38.01	22190	22080.6	45.72
		2op	22180	22108.8	36.68	22159	22091.6	34.35	22123	22058.6	41.5	22177	22062.53	44.8

Table A.2866: f_{635_350} : basicRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	22186	22115.87	45.91	22142	22059.47	52.66	22187	22078.03	38.31	22169	22082.33	39.56
		2op	22190	22127.83	40.31	22199	22080.87	57.95	22153	22073.3	45.32	22159	22078.23	45.98
	50	rnd	22189	22099.53	41.48	22169	22075.43	46.97	22170	22087.37	40.25	22162	22081.1	40.12
51	20	2op	22204	22121.57	38.48	22158	22076.63	45.8	22150	22060.3	42	22152	22081.07	38.63
		rnd	22211	22102.4	45.56	22153	22065.1	48.11	22170	22073.6	49.34	22173	22081.03	46.56
	50	2op	22220	22142.7	36.68	22195	22081.5	41.59	22147	22063.73	39.32	22152	22072.67	48.35
	20	rnd	22171	22103.8	34.41	22158	22074.2	44.67	22149	22063.1	47.23	22168	22066.27	40.43
		2op	22217	22125.87	44.98	22161	22096.6	39.65	22153	22080.33	41.54	22142	22065.83	43.97

Table A.2867: f_{635_350} : transRRGA+IM – Suspected Optimal is 22498

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24777	24701.6	44.64	24778	24687.23	48.44	24737	24671.23	46.98	24745	24674.8	38.75
		2op	24770	24687.33	51.13	24782	24691.9	47.91	24771	24673.67	43.06	24788	24692.23	50.63
	50	rnd	24782	24699.2	40.56	24747	24680.43	45.31	24792	24685.77	48.15	24794	24693.83	47.34
51	20	2op	24801	24675.1	56.57	24778	24686.9	55.24	24777	24679.37	42.57	24778	24687.23	51.73
		rnd	24761	24696.93	43.31	24761	24688.03	50.63	24784	24697.77	48.33	24759	24690.17	50.98
	50	2op	24769	24685.83	39.49	24760	24683.77	32.19	24784	24685.27	43.96	24754	24696.63	32.42
	20	rnd	24817	24695.77	55.29	24821	24696.1	48.98	24780	24693.17	40.9	24751	24669.73	46.64
		2op	24770	24684.13	48.96	24802	24689.17	49.26	24781	24675.93	60.27	24763	24673.73	52.01

Table A.2868: f_{737_355} : basicRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24790	24709.37	42.76	24805	24714.93	48.6	24863	24741.5	37.51	24790	24715.47	52.03
		2op	24835	24725.07	41.24	24832	24732.2	35.49	24850	24734.83	55.16	24817	24712.2	42.86
	50	rnd	24786	24719.47	34.78	24811	24721.23	46.9	24797	24740.47	34.22	24802	24712.83	44.15
51	20	2op	24830	24724.43	42.98	24842	24734.23	50.81	24840	24726.9	46.89	24822	24731.6	42.96
		rnd	24829	24725.8	47.31	24821	24732.53	47.31	24822	24731.57	49.14	24871	24723.63	49.66
	50	2op	24770	24722.13	28.7	24805	24739.8	37.18	24817	24738.7	43.38	24835	24733.03	40.67
	20	rnd	24791	24700.9	49.65	24794	24725.37	37.97	24793	24716.3	40.54	24874	24732.97	48.1
		2op	24799	24712.8	49.2	24788	24725.23	36.1	24813	24737.2	38.89	24797	24730.93	37.28

Table A.2869: f_{737_355} : transRRGA – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24765	24675.5	40.39	24762	24680.33	55.12	24767	24691.17	48.97	24760	24675.57	36.64
		2op	24777	24681.9	46.67	24765	24684.7	35.73	24764	24668.93	49.27	24822	24689.93	51.48
	50	rnd	24814	24687.37	48.6	24782	24670.4	47.4	24824	24682.77	65.98	24845	24665.9	61.43
51	20	2op	24784	24690.67	55.15	24759	24667.2	50.93	24773	24671.47	45.87	24794	24670.97	61.02
		rnd	24809	24705.53	53.04	24791	24694.47	44.98	24777	24698.3	44.24	24784	24681.97	45.46
	50	2op	24786	24694.47	45.69	24793	24687.8	41.19	24769	24689.97	51.23	24784	24671.3	53.47
	20	rnd	24786	24692.33	56.46	24789	24696.67	47.15	24784	24692.13	52.52	24761	24671.93	46.36
		2op	24827	24692.8	46.14	24795	24703.7	42.01	24782	24684.87	53.77	24751	24670.13	44.53

Table A.2870: f_{737_355} : basicRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24807	24727.23	37.47	24835	24731.13	43.2	24793	24725.17	38.38	24815	24706.47	49.52
		2op	24851	24712.73	46.75	24816	24730.77	39.04	24796	24723.8	39.36	24812	24731.93	35.39
	50	rnd	24812	24706.23	52.03	24826	24725.57	36.86	24791	24730.63	36.07	24792	24703.7	50.56
51	20	2op	24824	24719.87	46.91	24812	24722.63	43.72	24818	24743.83	36.01	24825	24719	40.62
		rnd	24804	24716.67	48.78	24783	24717.87	44.37	24809	24721.37	42.69	24814	24727.63	39.16
	50	2op	24798	24725.67	37.05	24817	24737.83	34.41	24811	24737.97	32.19	24834	24728.27	48.01
	20	rnd	24804	24718.8	49.84	24813	24721.47	39.84	24787	24743.57	32.51	24819	24732.7	40.22
		2op	24805	24712.93	48.92	24802	24719.33	50.4	24875	24733.43	46.22	24814	24728.9	43.26

Table A.2871: f_{737_355} : transRRGA+RS – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24810	24713.63	43.74	24769	24651.77	56.68	24766	24674.33	47.91	24781	24675.33	49.25
		2op	24768	24688.1	39.82	24764	24671.67	48.99	24751	24664.17	51.36	24782	24680.7	44.3
	50	rnd	24784	24673.07	51.61	24782	24662.27	48.67	24780	24681.8	61.98	24722	24654.43	37.08
51	20	2op	24799	24698.5	45.38	24729	24663.6	51.39	24753	24672.23	45.64	24723	24668.53	42.47
		rnd	24790	24715.07	39.51	24795	24714	48.56	24750	24668.6	42.81	24759	24645.13	53.49
	50	2op	24766	24707.07	32.2	24791	24697.43	42.12	24775	24670.73	50.89	24759	24666.03	45.08
	20	rnd	24805	24716.37	50.04	24804	24702.8	47.35	24764	24678.23	46.01	24766	24664.33	46.49
		2op	24786	24701.5	47.26	24772	24702.27	39.48	24747	24673.27	40.57	24795	24674.73	52.91

Table A.2872: f_{737_355} : basicRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	24802	24719.77	39.38	24749	24664.13	49.97	24729	24672.37	35.09	24770	24668.97	55.47
		2op	24827	24720.6	47.71	24743	24677.67	40.21	24788	24678.63	51.53	24782	24663.87	60.71
	50	rnd	24772	24696.87	47.6	24761	24670.93	51.87	24781	24676.63	48.9	24776	24679.13	47.24
51	20	2op	24780	24706.1	35.23	24772	24679.47	47.96	24753	24668.8	42.7	24815	24681.2	41.19
		rnd	24814	24713.57	48.41	24782	24684.27	50.6	24743	24675	40.06	24791	24672.7	51.03
	50	2op	24833	24726.87	42.15	24780	24670.13	53.29	24746	24678.73	36.44	24767	24674.3	44.81
	20	rnd	24796	24709.2	41.01	24743	24665.93	45.09	24793	24671.9	42.88	24827	24690.37	51.33
		2op	24770	24725.73	29.85	24818	24690.67	53.6	24763	24668.9	46.66	24747	24671.53	50.36

Table A.2873: f_{737_355} : transRRGA+IM – Suspected Optimal is 25218

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48052	47917.9	68.61	48085	47894.57	91.83	48031	47887	83.95	48039	47894.43	75.63
		2op	48045	47899.77	82.32	48025	47881.83	89.3	48087	47895.13	81.94	48023	47907.07	60.56
	50	rnd	48053	47886.57	86.71	48038	47891.47	78.63	47988	47880.6	60.8	48041	47905	70.82
51	20	rnd	48028	47912.53	66.46	48042	47884.6	68.92	48041	47891.43	81.65	48020	47910.9	59.67
		2op	48091	47899.43	79.52	48040	47912.47	67.55	48009	47896.17	83.3	48063	47912.13	76.37
	50	rnd	48078	47901.77	75.03	48151	47918.8	80.09	48066	47886.97	75.74	48075	47895.33	89.66
	20	rnd	48090	47931.7	82.91	48058	47934.23	86.86	48073	47893.8	85.71	48096	47891.4	77.59
		2op	48073	47952.07	68.53	48094	47904.07	73.21	48071	47905.03	85.92	48049	47916.97	66.56

Table A.2874: f_{1343_354} : basicRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48112	47968.3	60.14	48122	47999.27	78.29	48148	48008.13	71.77	48122	47951	85.76
		2op	48129	47983.43	83.87	48144	48013.13	69.77	48207	48015.07	73.41	48114	47966.1	79.81
	50	rnd	48140	47980.83	71.96	48161	47989.67	70.51	48134	47998.3	64.17	48075	47960.93	66.5
51	20	rnd	48122	48014.2	75.34	48147	48001.83	70.24	48162	48010.93	72.71	48153	47998.67	74.51
		2op	48123	47985.13	65.9	48189	47991.6	78.63	48197	48011.97	77.23	48121	47989.23	72.05
	50	rnd	48119	48021.27	60.28	48166	48015.57	70.88	48131	48027.1	66.24	48118	47996.13	74.61
	20	rnd	48147	47969.4	71.08	48182	47986.8	76.89	48121	47987.7	72.82	48128	48008.67	70.08
		2op	48157	48012.6	66.04	48215	48020.37	96.55	48084	47994.67	42.29	48128	48014.17	69.84

Table A.2875: f_{1343_354} : transRRGA – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	47991	47895.47	53.94	48013	47897	58.34	47987	47901.13	56.71	48027	47890.4	75.08
		2op	48049	47902.57	68.53	48068	47895.37	78.09	48004	47888.43	66.32	48126	47924.4	80.78
	50	rnd	48044	47897.97	86.58	48035	47903.27	80.93	48034	47882.27	77.02	48086	47903.93	87.42
51	20	rnd	48024	47928.63	62.95	48063	47892.63	82.78	48039	47884.2	67.74	48104	47902.43	76.43
		2op	48011	47915	62.71	48056	47926.67	76.34	48025	47901.6	67.33	48092	47898.47	77.86
	50	rnd	48050	47896.7	59.88	48069	47907.8	74.83	48069	47879.1	79.19	48071	47921.97	73.2
	20	rnd	48100	47926.6	85.82	48072	47940.93	60.94	48017	47887.47	66.84	48098	47901.77	75.77
		2op	48134	47933.27	80.04	48137	47921.63	82.49	48002	47904.77	63.35	48031	47894.83	66.2

Table A.2876: f_{1343_354} : basicRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48100	47975.67	67.54	48145	48010.63	71.72	48202	48003.47	110.05	48127	47943.2	81.22
		2op	48159	48021.07	64.31	48129	48004.13	67.04	48154	48022.2	73.4	48120	47992.83	72.43
	50	rnd	48091	47963.2	85.27	48139	47968.6	69.05	48134	47989.97	79.83	48151	47961.67	84.83
51	20	rnd	48178	47991.5	81.8	48171	48012.73	84.38	48163	48022.73	77.5	48127	47987.8	74.43
		2op	48145	48021.37	69.1	48131	48006.93	71.48	48135	48006.5	51.01	48118	47990.27	62.76
	50	rnd	48209	48018.47	73.75	48126	48009.07	61.4	48131	48008.9	66.64	48149	47999.43	74.11
	20	rnd	48122	47931.27	75.49	48129	47983.8	62.04	48121	47974.03	66.58	48186	47992.3	81.4
		2op	48154	48015.73	65.14	48223	48028.6	87.14	48131	47991.2	69.04	48225	48023.63	90.94

Table A.2877: f_{1343_354} : transRRGA+RS – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48106	47938.33	79.03	48073	47928.9	75.16	47990	47865.07	83.64	48113	47875.33	90.25
		2op	48097	47937.7	82.32	48068	47922.27	81.87	48055	47871.23	74.19	48004	47864.6	85.14
	50	rnd	48104	47911.5	88.13	48109	47915.8	92.24	48019	47872.27	77.61	48070	47856.37	99.48
51	20	rnd	48096	47934.1	90.56	48051	47922.5	62.79	48005	47872.73	77.3	48090	47861.83	79.51
		2op	48109	47963	66.08	48109	47963	66.08	48060	47855.03	95.19	47981	47851.1	68.05
	50	rnd	48130	47956.3	72.11	48160	47963.93	90.44	48045	47855.43	81.87	48075	47885.3	76.11
	20	rnd	48119	47921.73	79.94	48068	47917.4	71.68	48061	47876.53	85	48019	47842.53	94.78
		2op	48080	47944.1	67.68	48029	47923.5	55.78	47987	47853.9	58.21	47994	47842.9	63.56

Table A.2878: f_{1343_354} : basicRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	48097	47955.93	60.14	48027	47893.9	55.87	48038	47868.93	87.19	48019	47877.1	85.7
		2op	48188	48025.67	73.98	48078	47855.77	74.82	47992	47882.4	59.77	48015	47877.47	65.65
	50	rnd	48113	47976.17	64.31	48014	47890	72.92	48029	47857.07	87.19	48005	47856.77	70.99
51	20	rnd	48177	47997.87	77.11	48068	47915.4	79.05	48057	47876.37	77.1	48007	47898.53	72.02
		2op	48141	47970.1	74.07	48029	47889.1	90.3	48022	47882.57	71.42	48033	47842.6	78.16
	50	rnd	48138	48009.23	78.43	48025	47878.13	65.86	48006	47871.23	80.07	48068	47873.3	76.44
	20	rnd	48092	47956.97	62.98	48028	47878	73.58	48085	47880.57	105.12	48028	47869.2	70.61
		2op	48235	47994.8	78.27	48003	47891.47	75.85	48068	47877.47	80.11	48026	47877.53	82.67

Table A.2879: f_{1343_354} : transRRGA+IM – Suspected Optimal is 49042

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56145	55994.67	75.35	56148	56002.43	62.1	56118	55981.93	63.85	56155	56004	84.8
		2op	56179	56000.9	95.75	56134	55948	96.07	56132	55980.53	84.71	56097	55970.73	80.25
	50	rnd	56192	56031.5	85.02	56126	55970.77	76.65	56096	55946.03	91.09	56128	55976.9	83.49
51	20	rnd	56240	56024.73	87.91	56139	55968.77	100.71	56217	55969.07	105.51	56099	55971.03	84.06
		2op	56167	56015.33	75.78	56175	56012.67	92.33	56220	56016.37	91.06	56227	55995	81.97
	50	rnd	56156	55985.9	75.46	56189	55994.43	102.13	56087	55994.47	48.76	56181	56016.77	77.76
	20	rnd	56158	56032.8	63.4	56156	56025.6	71.65	56085	55962.53	82.5	56242	56016.17	85.11
		2op	56185	56023.87	83.11	56171	56014.83	71.78	56149	55979.07	80.15	56173	55987.73	98.11

Table A.2880: f_{1577_354} : basicRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56266	56091.2	77.69	56263	56114.27	87.49	56248	56100.47	83.86	56216	56040.3	104.78
		2op	56250	56114.13	71.26	56234	56124.83	67.66	56310	56150.6	71.92	56227	56067.67	86.04
	50	rnd	56224	56080.53	74.26	56345	56106.33	105.87	56268	56110.17	85.57	56217	56088.83	87.03
51	20	rnd	56269	56110.67	81.43	56256	56127.73	73.45	56267	56148.1	63.16	56316	56101.83	94.75
		2op	56213	56067.6	78.93	56275	56095.07	74.75	56269	56099.6	73.37	56220	56119.47	52.23
	50	rnd	56311	56123.37	90.6	56268	56108.23	97.07	56275	56144.73	95.21	56320	56143.5	80.34
	20	rnd	56222	56089.23	70.32	56303	56112	110.53	56227	56089.57	83.5	56287	56111.5	80.13
		2op	56281	56106.47	73.44	56318	56146.07	95	56273	56111.63	78.03	56310	56136.13	86.74

Table A.2881: f_{1577_354} : transRRGA – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56235	55997.57	95.99	56118	55974.83	77.75	56117	55956.23	71.22	56174	56013.4	82.79
		2op	56178	55975.67	90.38	56133	56001.5	71.87	56216	55977.83	82.57	56160	56016.8	85.47
	50	rnd	56103	56004.27	60.15	56077	55958.17	73.55	56140	55978.2	106.39	56104	55979.03	69.23
51	20	rnd	56145	55999	63.8	56185	55978.3	93.99	56086	55988.17	68.53	56123	56008.37	84.19
		2op	56194	56045.53	72.26	56148	55993.57	89.56	56133	55995.7	71.69	56246	55991.2	90.16
	50	rnd	56134	55999.23	93.39	56139	56001.97	79.92	56115	55977.33	80.52	56150	55997.83	74.93
	20	rnd	56166	56021.1	82.09	56115	55985.13	88.72	56217	56019.83	81.97	56184	56015.9	76.38
		2op	56251	56023.47	70.49	56176	56026.23	93	56119	56007.27	72.22	56186	55998.77	69.11

Table A.2882: f_{1577_354} : basicRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56334	56116	86.38	56209	56102.17	65.49	56258	56101.33	75.9	56214	56040.97	84.12
		2op	56303	56132.97	87.61	56313	56140.4	78.95	56375	56146.63	93.26	56176	56072.17	65.09
	50	rnd	56259	56091.5	76.25	56263	56103.37	69.23	56269	56108.47	73.65	56334	56083.3	90.75
51	20	rnd	56250	56117.6	65.77	56215	56114.67	63.02	56279	56148.33	64.88	56207	56098.07	68.53
		2op	56259	56085.37	82.53	56252	56120.87	84.49	56363	56133.93	81.79	56187	56102.97	58.98
	50	rnd	56336	56140.73	84	56327	56145	82.18	56220	56103.77	64.7	56386	56135.7	83.93
	20	rnd	56213	56053.63	72.58	56324	56080.7	96.57	56268	56084.9	77.13	56280	56130.77	68.05
		2op	56266	56113.6	80.94	56262	56142.87	61.99	56324	56128.23	85.09	56323	56155.67	67.02

Table A.2883: f_{1577_354} : transRRGA+RS – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56188	56025.3	80.6	56190	56016.27	98.83	56122	55963.3	86.91	56165	55975.73	79.25
		2op	56214	55986.93	110.61	56176	56008.67	75.33	56170	55963.23	87.12	56175	55966.77	94.64
	50	rnd	56205	56008.07	94.72	56170	56006.4	75.14	56179	55959.7	80.03	56132	55970.2	82.08
51	20	rnd	56198	56009.07	85.1	56151	55960.6	95.93	56076	55971.83	81.9	56169	55944.07	94.71
		2op	56148	56035.2	70.41	56148	56035.2	70.41	56139	55980.13	77.23	56212	55970.2	93.57
	50	rnd	56142	56015.37	88.86	56206	56022.67	78.42	56075	55934.53	89.75	56142	55968.37	86.29
	20	rnd	56130	56034	72.03	56137	56014.47	76.42	56097	55923.23	86.36	56106	55941.77	104.04
		2op	56234	56030.4	87.37	56232	56019.5	81.3	56125	55947.67	89.56	56112	55928.67	77.26

Table A.2884: f_{1577_354} : basicRRGA+IM – Suspected Optimal is 57373

Parameters			Basic			After 10000			After 1000			After 100		
Pp	Mt	Sd	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv	Mx	Av	Dv
11	20	rnd	56269	56082.63	100.88	56110	55970.07	71.38	56173	55951.53	102.15	56121	55962.13	80.2
		2op	56287	56123.87	68.07	56213	55972.47	99.7	56135	55972.3	104.87	56108	55972.37	68.86
	50	rnd	56314	56070.2	111.79	56102	55961.03	69.88	56153	55956.7	71.58	56123	55943.47	100.84
51	20	rnd	56242	56127.63	66.15	56144	55984.93	86.58	56135	55966.63	94.08	56124	55989.27	71.74
		2op	56266	56077.03	89.78	56199	55985.2	88.46	56137	55976	84.93	56097	55956	81.25
	50	rnd	56306	56137.17	59.71	56230	55970.7	83.57	56137	55976.23	100.68	56201	55964.93	82.39
	20	rnd	56140	56030.43	66.56	56142	55962.73	91.92	56152	55979.53	83.96	56080	55962.17	78.76
		2op	56265	56115.67	77.72	56164	55988.3	74.14	56188	55956.53	87.38	56148	55937.1	91.28

Table A.2885: f_{1577_354} : transRRGA+IM – Suspected Optimal is 57373

Appendix B

Graphs

B.1 Bin Packing Problem

B.1.1 u Instance Results

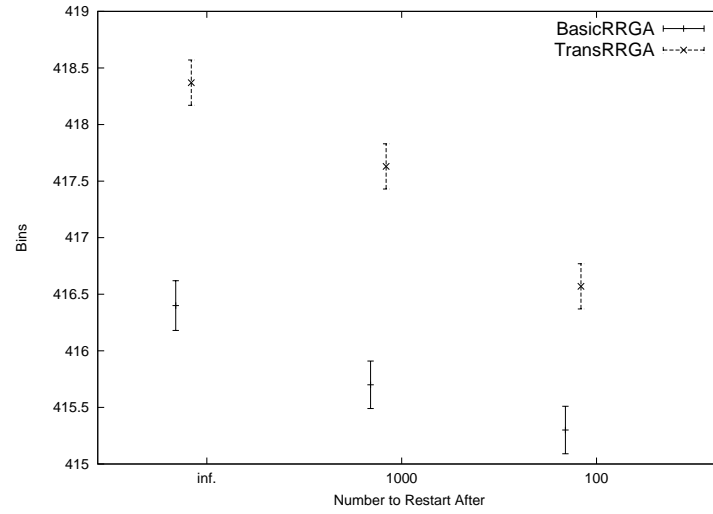


Figure B.1: Comparison of Best Results Between Representations on Problem Instance $u100000$

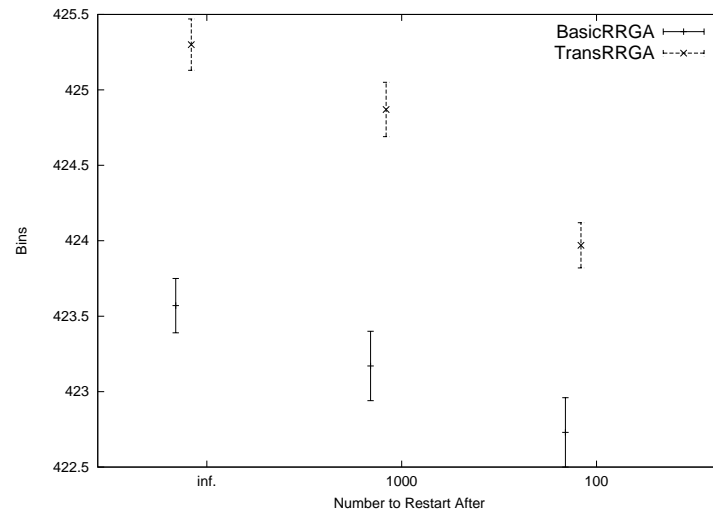


Figure B.2: Comparison of Best Results Between Representations on Problem Instance $u100001$

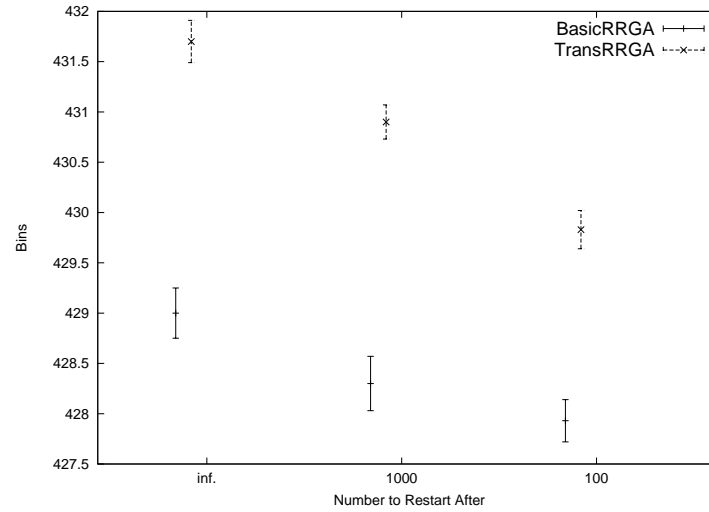


Figure B.3: Comparison of Best Results Between Representations on Problem Instance *u100002*

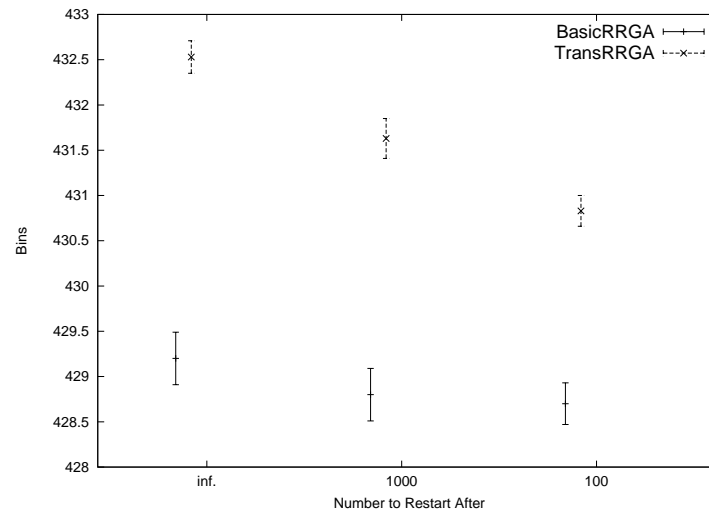


Figure B.4: Comparison of Best Results Between Representations on Problem Instance *u100003*

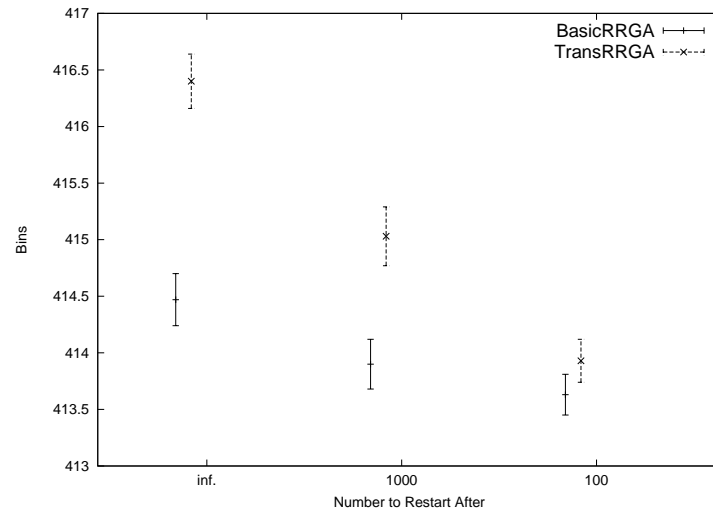


Figure B.5: Comparison of Best Results Between Representations on Problem Instance *u100004*

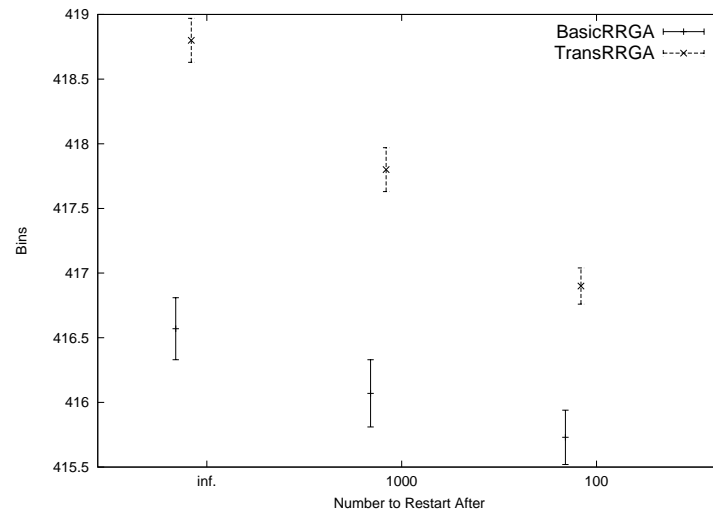


Figure B.6: Comparison of Best Results Between Representations on Problem Instance *u100005*

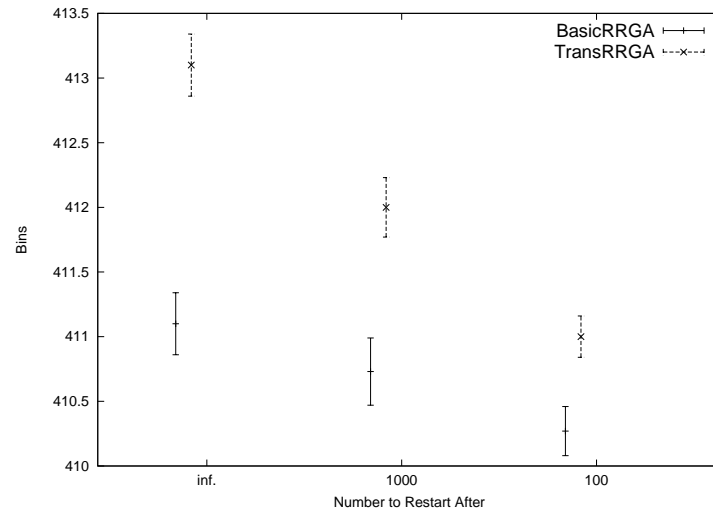


Figure B.7: Comparison of Best Results Between Representations on Problem Instance *u100006*

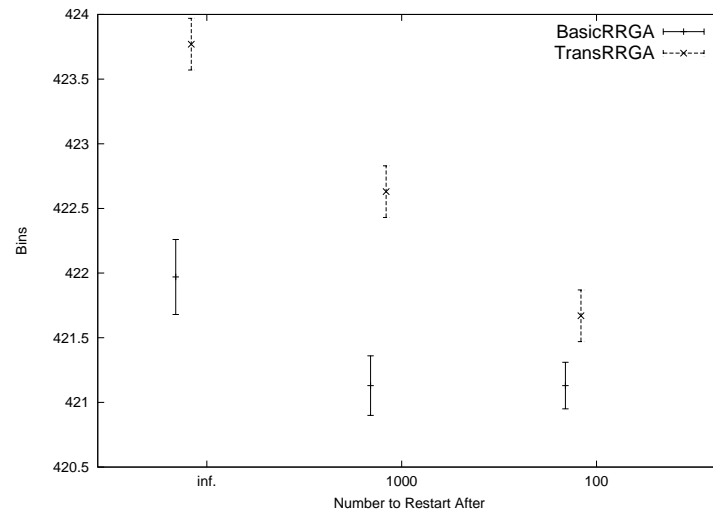


Figure B.8: Comparison of Best Results Between Representations on Problem Instance *u100007*

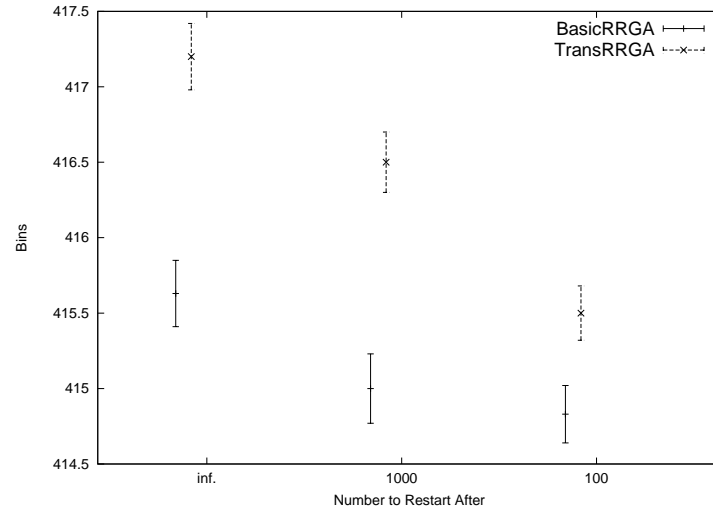


Figure B.9: Comparison of Best Results Between Representations on Problem Instance $u100008$

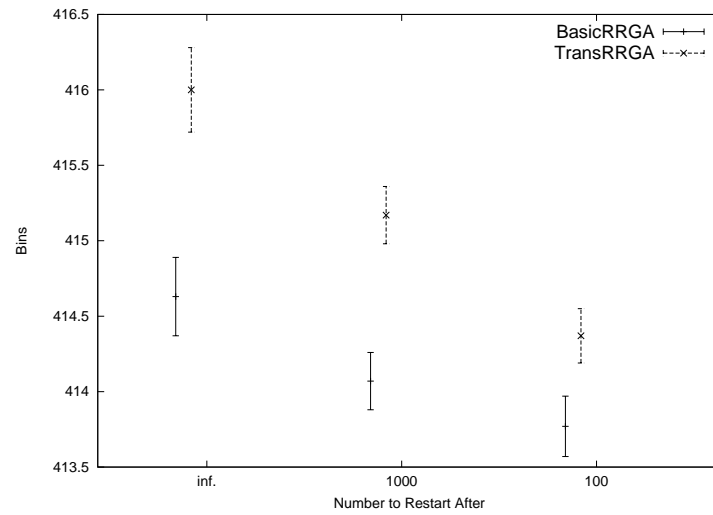


Figure B.10: Comparison of Best Results Between Representations on Problem Instance $u100009$

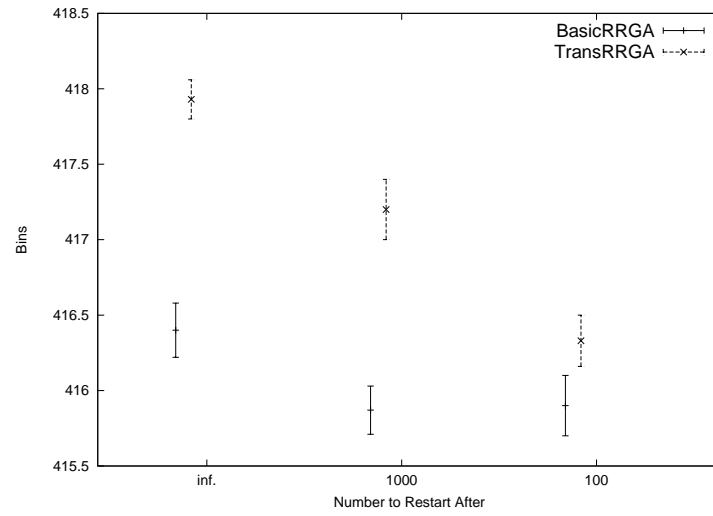


Figure B.11: Comparison of Best Results Between Representations on Problem Instance $u100010$

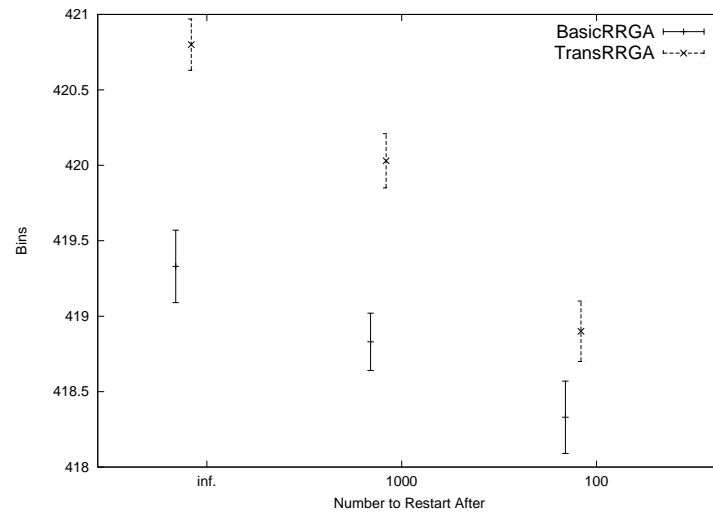


Figure B.12: Comparison of Best Results Between Representations on Problem Instance $u100011$

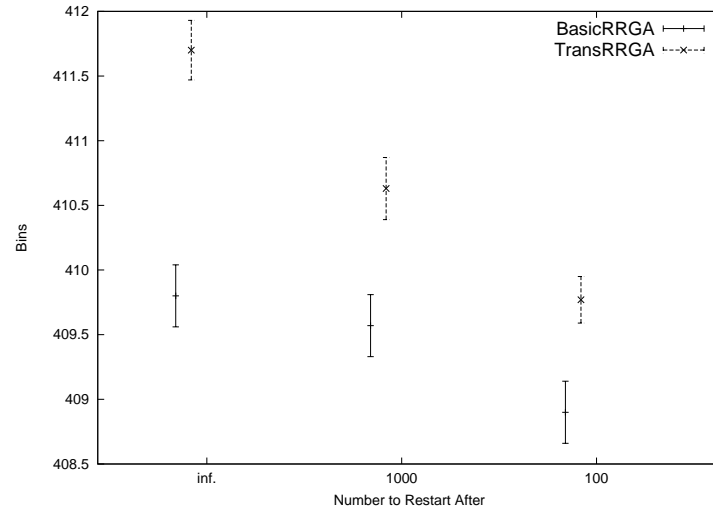


Figure B.13: Comparison of Best Results Between Representations on Problem Instance *u100012*

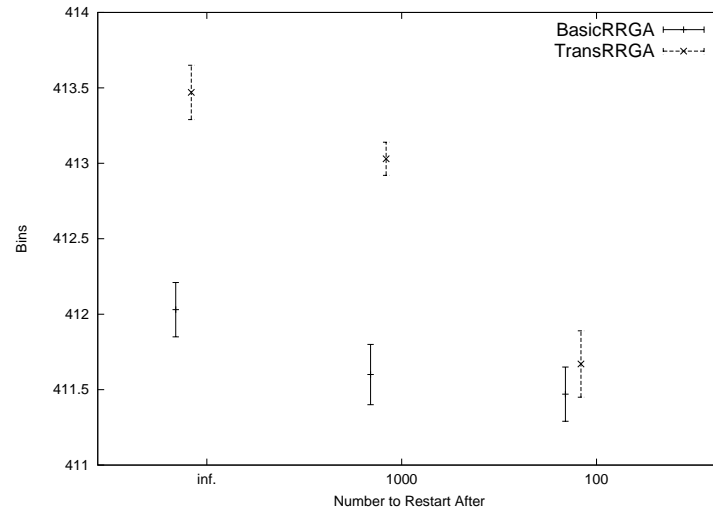


Figure B.14: Comparison of Best Results Between Representations on Problem Instance *u100013*

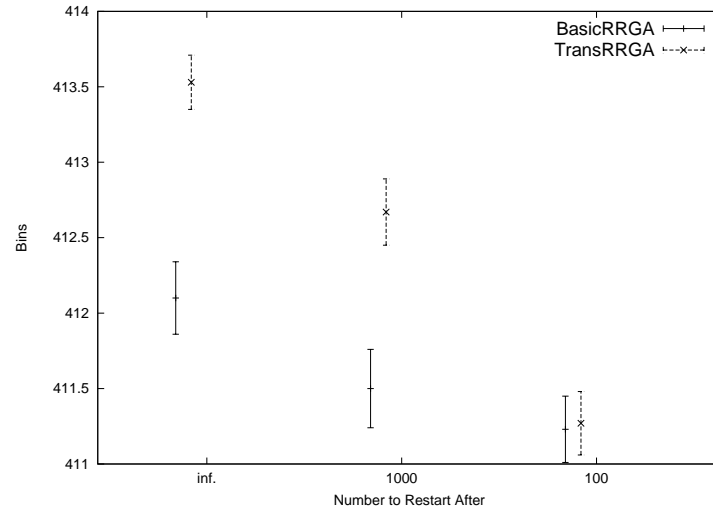


Figure B.15: Comparison of Best Results Between Representations on Problem Instance $u100014$

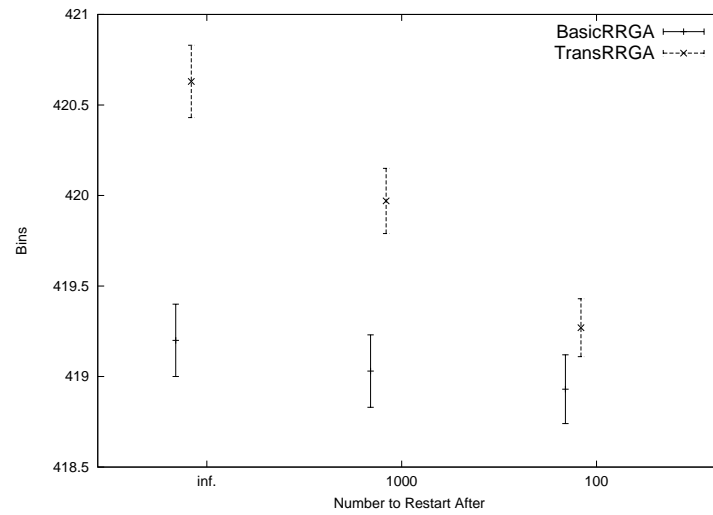


Figure B.16: Comparison of Best Results Between Representations on Problem Instance $u100015$

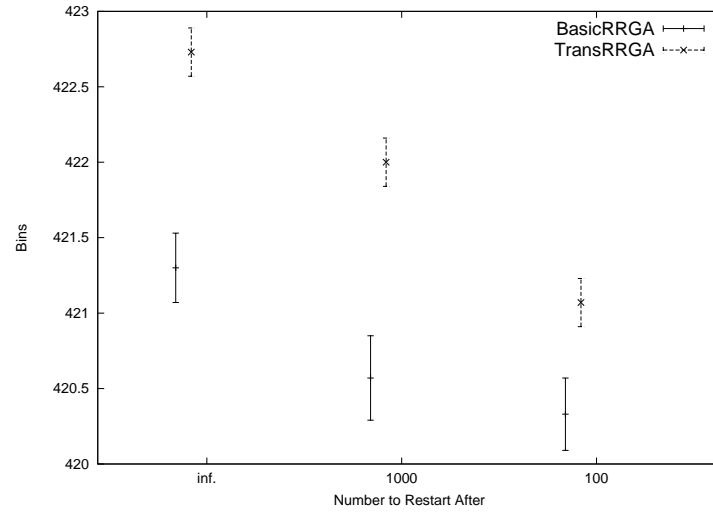


Figure B.17: Comparison of Best Results Between Representations on Problem Instance *u100016*

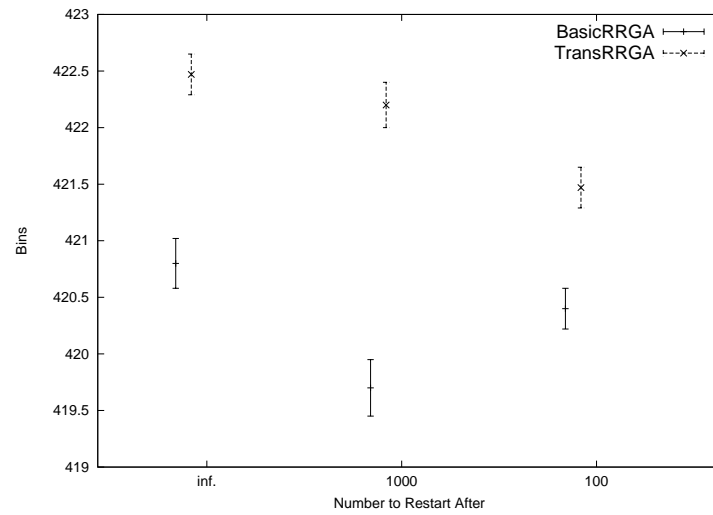


Figure B.18: Comparison of Best Results Between Representations on Problem Instance *u100017*

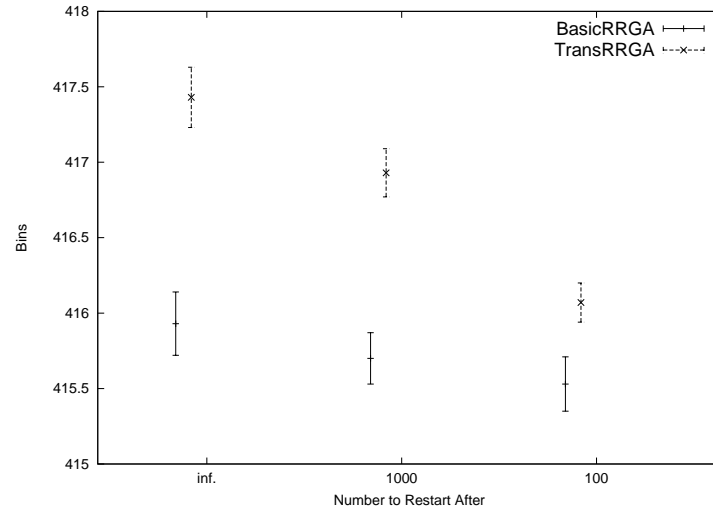


Figure B.19: Comparison of Best Results Between Representations on Problem Instance *u100018*

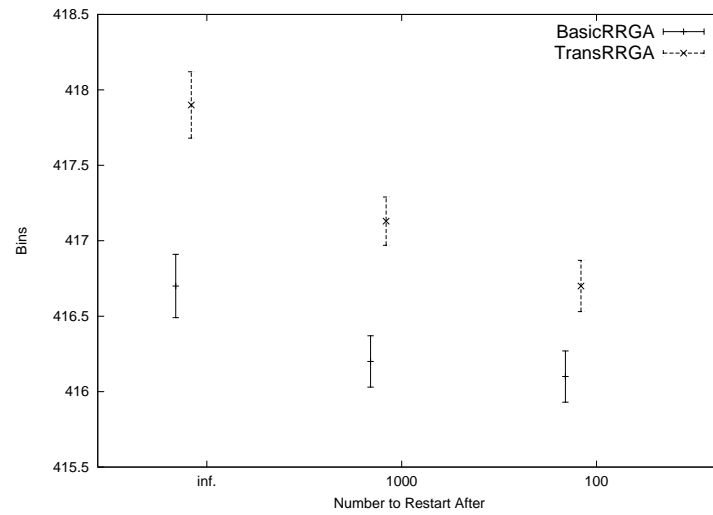


Figure B.20: Comparison of Best Results Between Representations on Problem Instance *u100019*

B.1.2 hard28 Instance Results

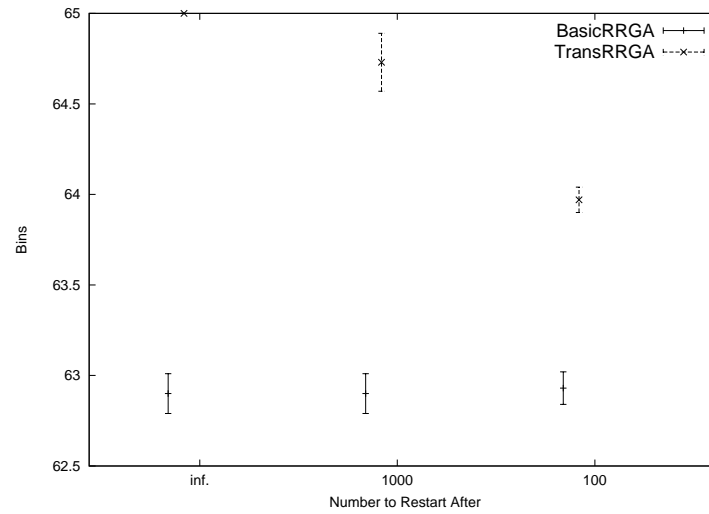


Figure B.21: Comparison of Best Results Between Representations on Problem Instance $h1$

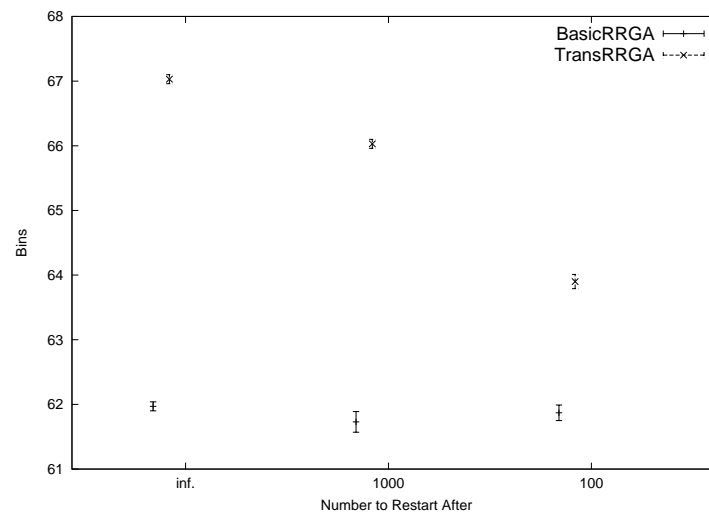


Figure B.22: Comparison of Best Results Between Representations on Problem Instance $h2$

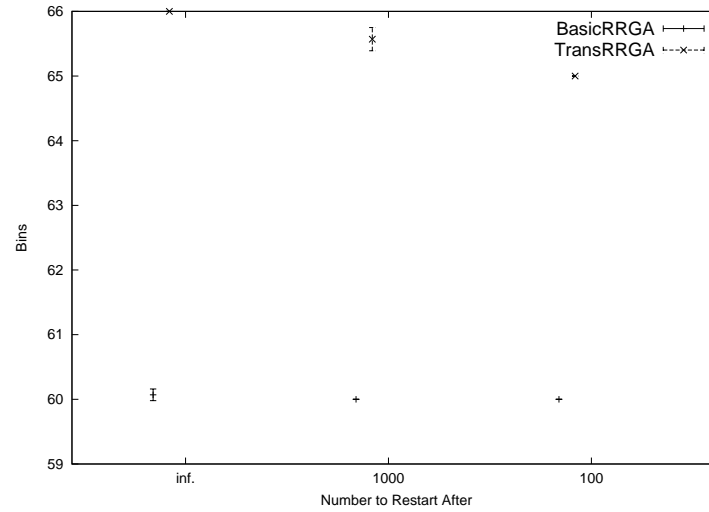


Figure B.23: Comparison of Best Results Between Representations on Problem Instance *h3*

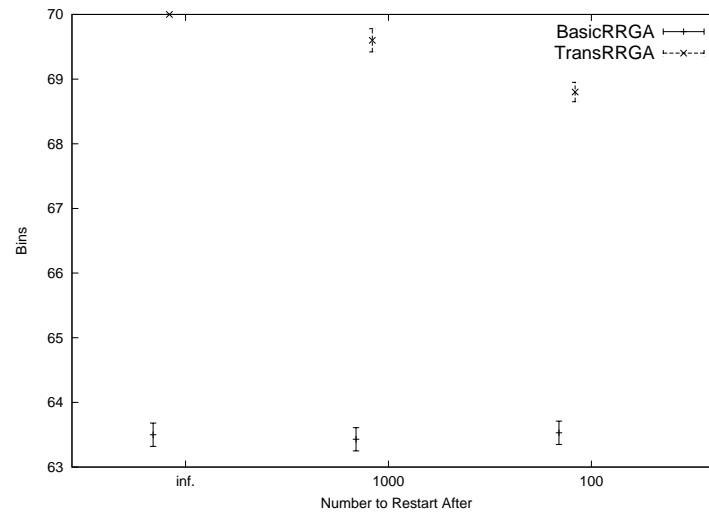


Figure B.24: Comparison of Best Results Between Representations on Problem Instance *h4*

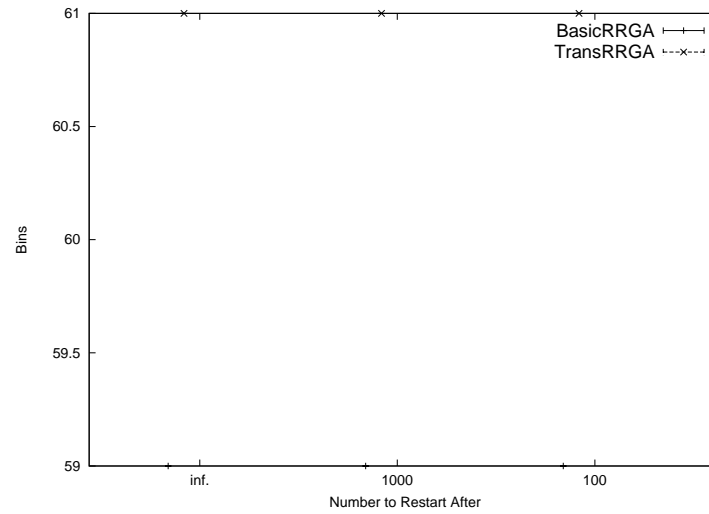


Figure B.25: Comparison of Best Results Between Representations on Problem Instance $h5$

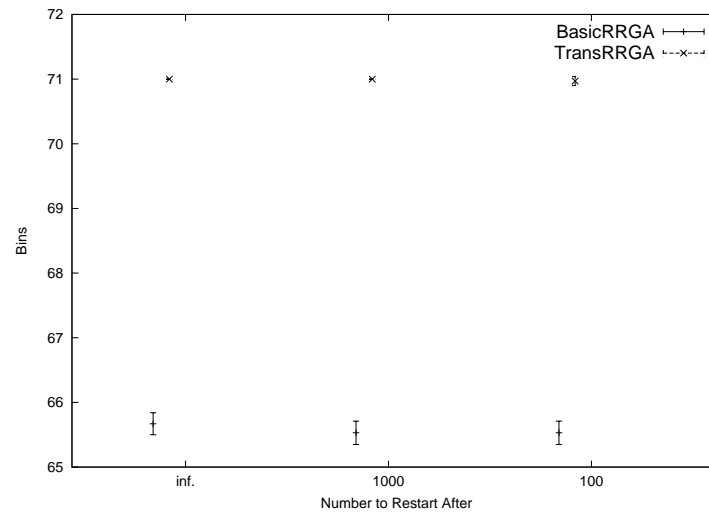


Figure B.26: Comparison of Best Results Between Representations on Problem Instance $h6$

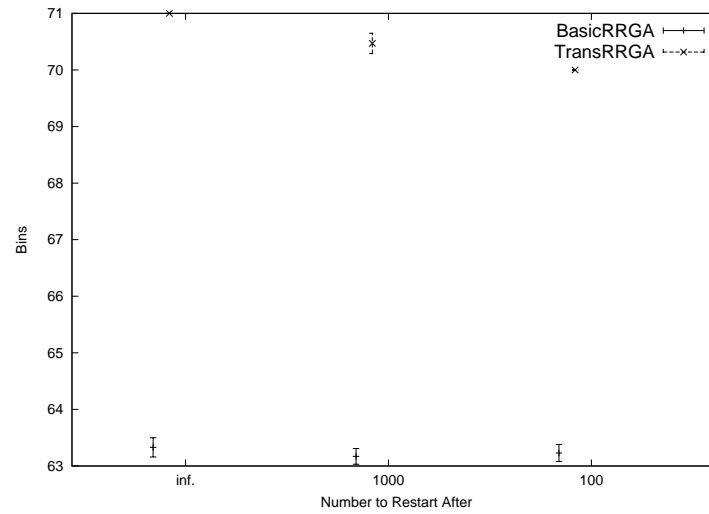


Figure B.27: Comparison of Best Results Between Representations on Problem Instance $h7$

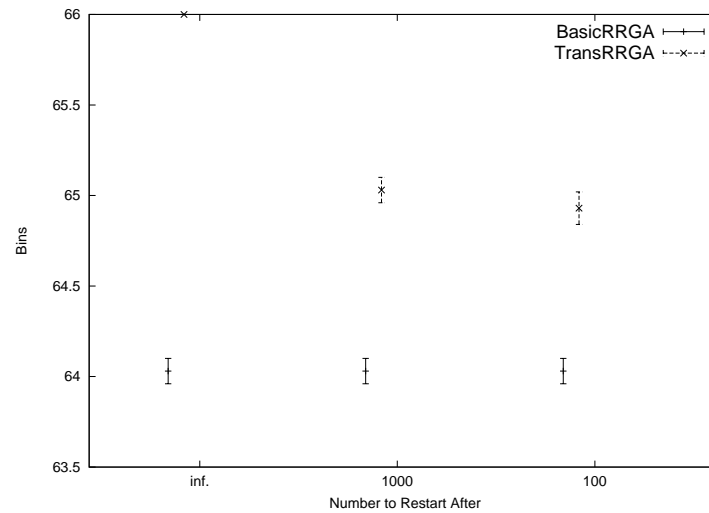


Figure B.28: Comparison of Best Results Between Representations on Problem Instance $h8$

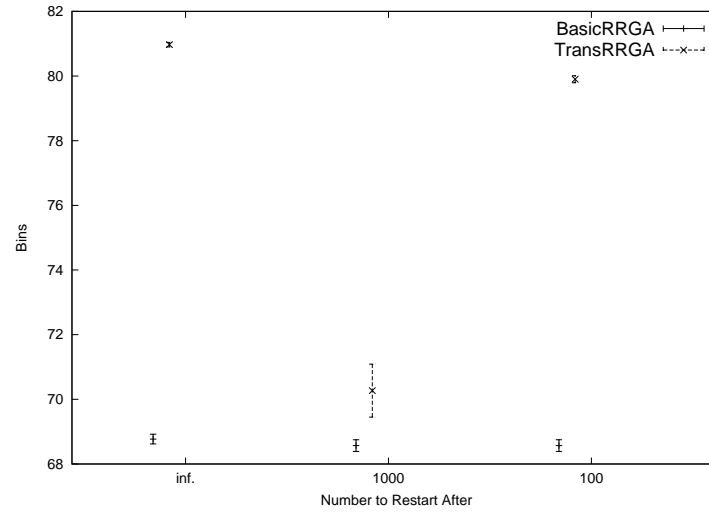


Figure B.29: Comparison of Best Results Between Representations on Problem Instance $h9$

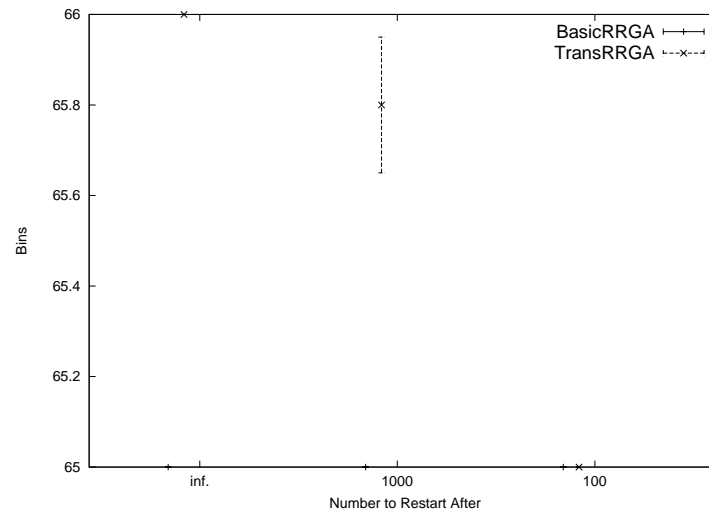


Figure B.30: Comparison of Best Results Between Representations on Problem Instance $h10$

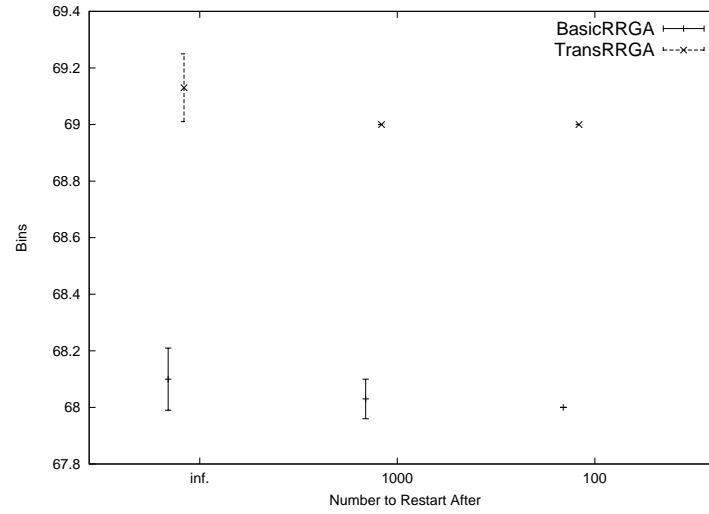


Figure B.31: Comparison of Best Results Between Representations on Problem Instance *h11*

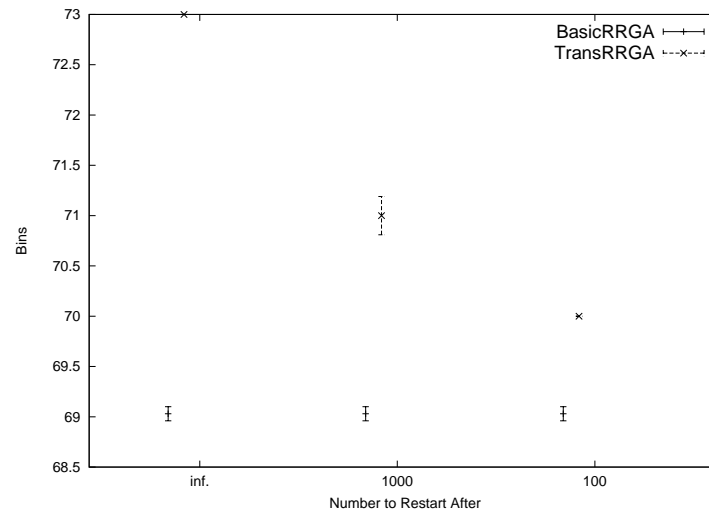


Figure B.32: Comparison of Best Results Between Representations on Problem Instance *h12*

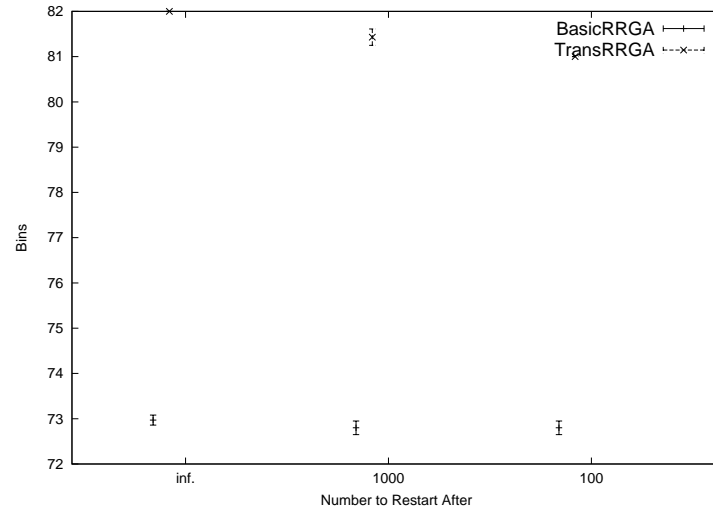


Figure B.33: Comparison of Best Results Between Representations on Problem Instance *h13*

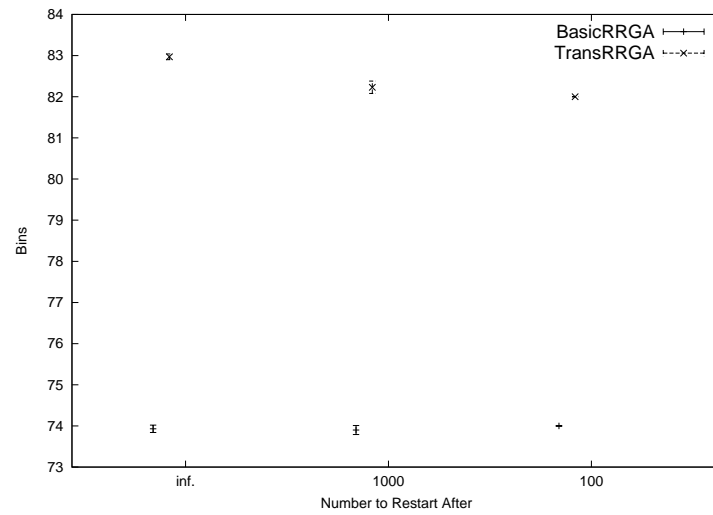


Figure B.34: Comparison of Best Results Between Representations on Problem Instance *h14*

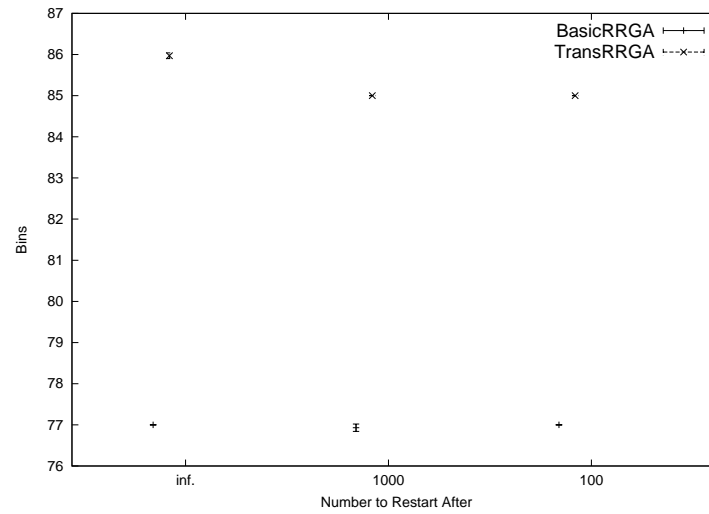


Figure B.35: Comparison of Best Results Between Representations on Problem Instance $h15$

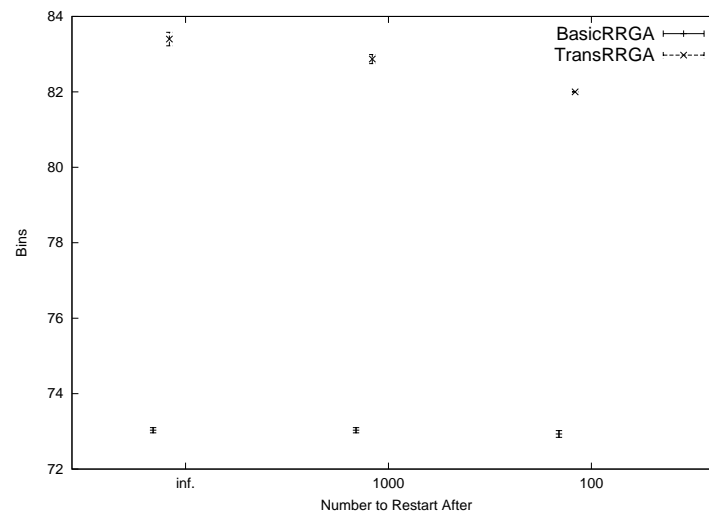


Figure B.36: Comparison of Best Results Between Representations on Problem Instance $h16$

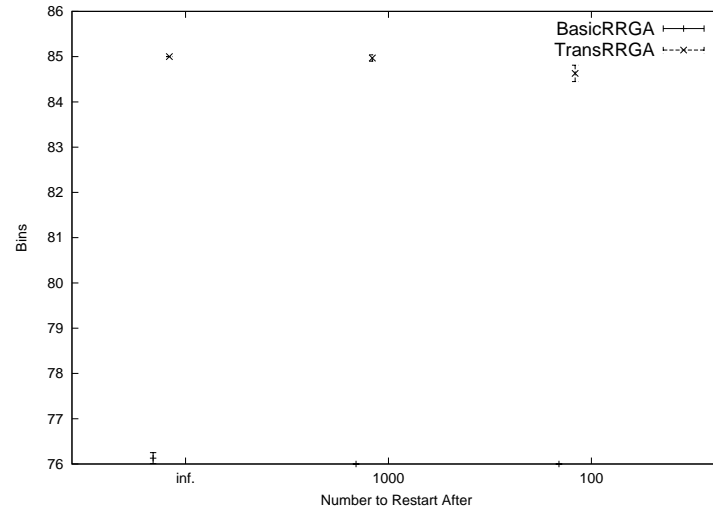


Figure B.37: Comparison of Best Results Between Representations on Problem Instance *h17*

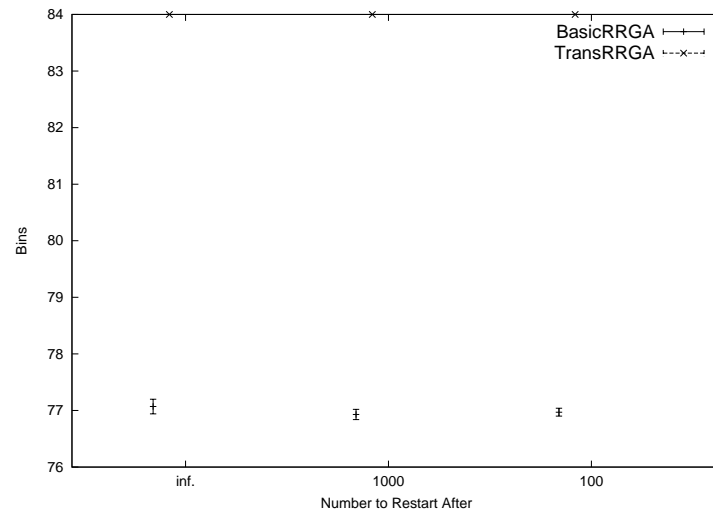


Figure B.38: Comparison of Best Results Between Representations on Problem Instance *h18*

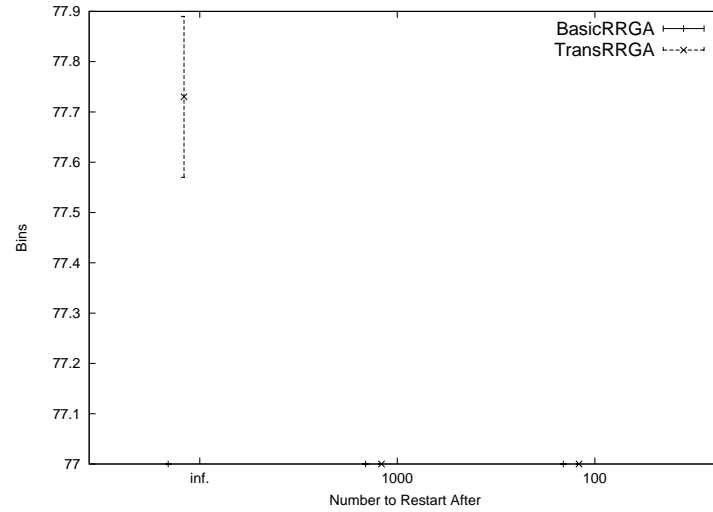


Figure B.39: Comparison of Best Results Between Representations on Problem Instance h_{19}

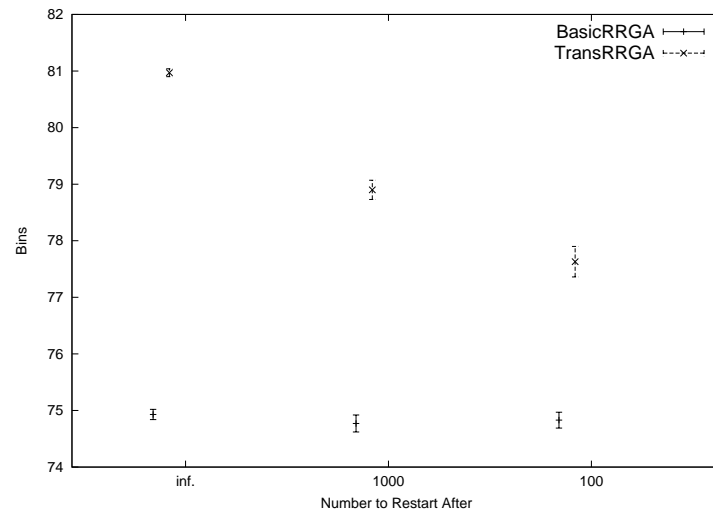


Figure B.40: Comparison of Best Results Between Representations on Problem Instance h_{20}

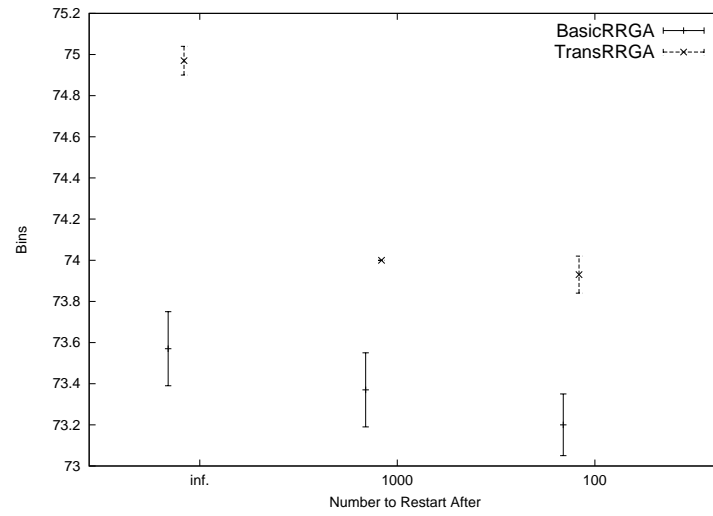


Figure B.41: Comparison of Best Results Between Representations on Problem Instance *h21*

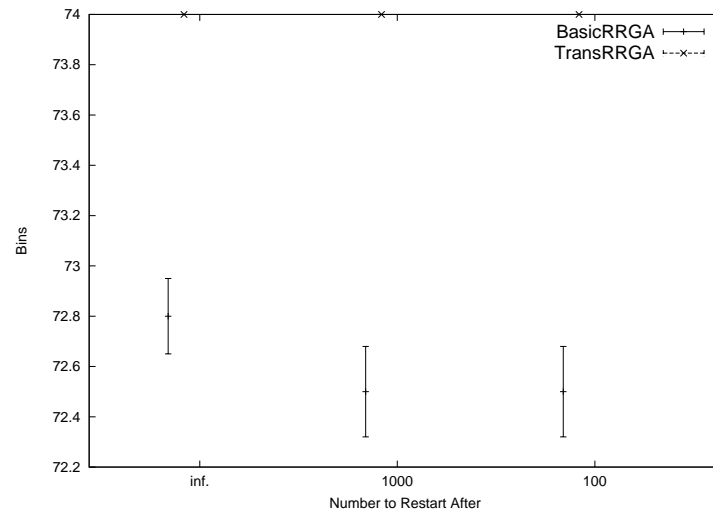


Figure B.42: Comparison of Best Results Between Representations on Problem Instance *h22*

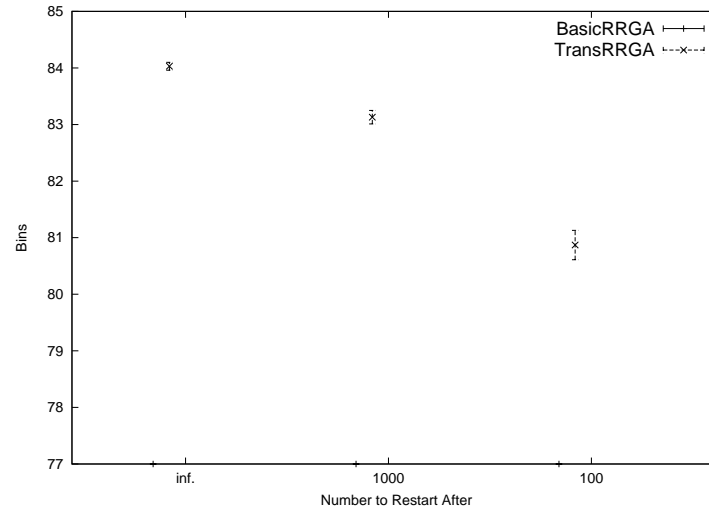


Figure B.43: Comparison of Best Results Between Representations on Problem Instance $h23$

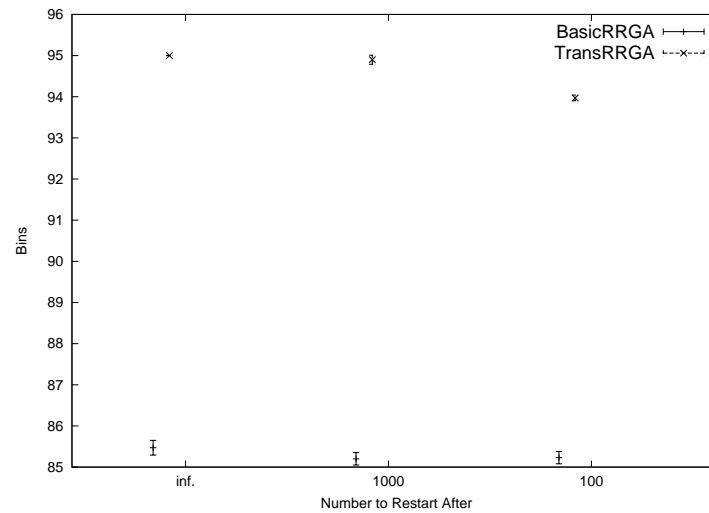


Figure B.44: Comparison of Best Results Between Representations on Problem Instance $h24$

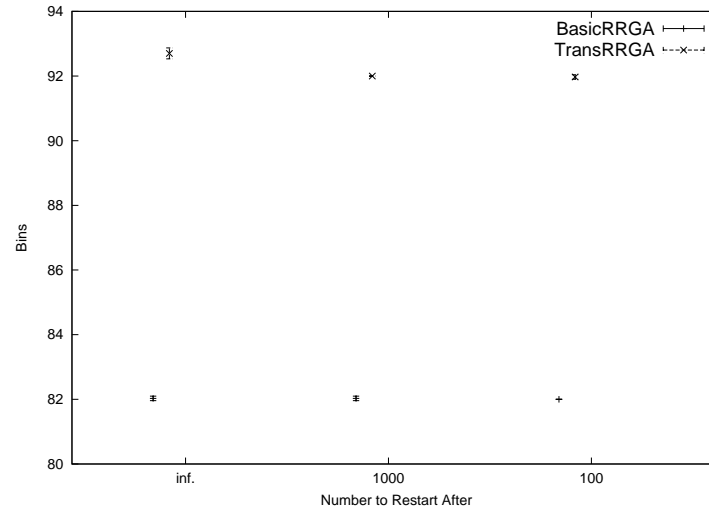


Figure B.45: Comparison of Best Results Between Representations on Problem Instance *h25*

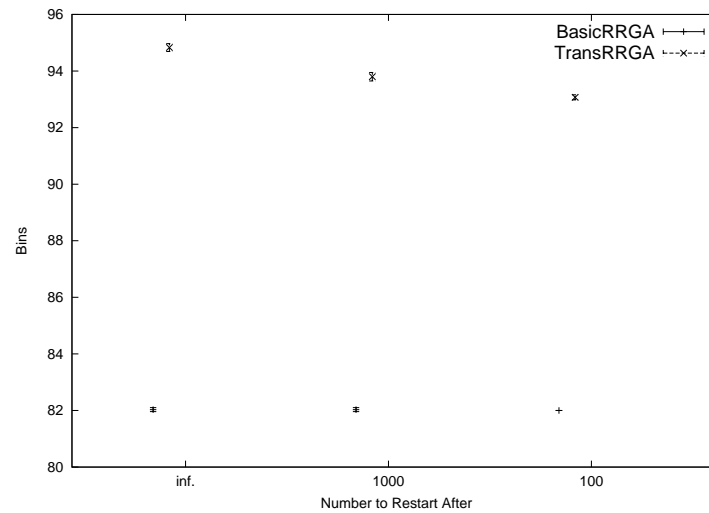


Figure B.46: Comparison of Best Results Between Representations on Problem Instance *h26*

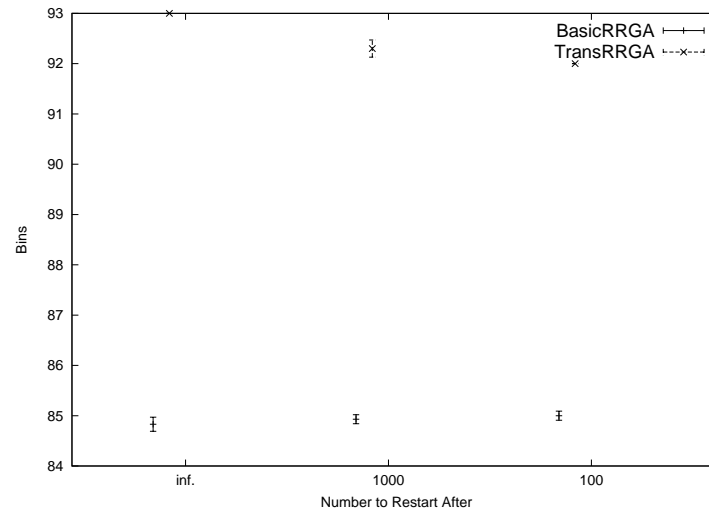


Figure B.47: Comparison of Best Results Between Representations on Problem Instance *h27*

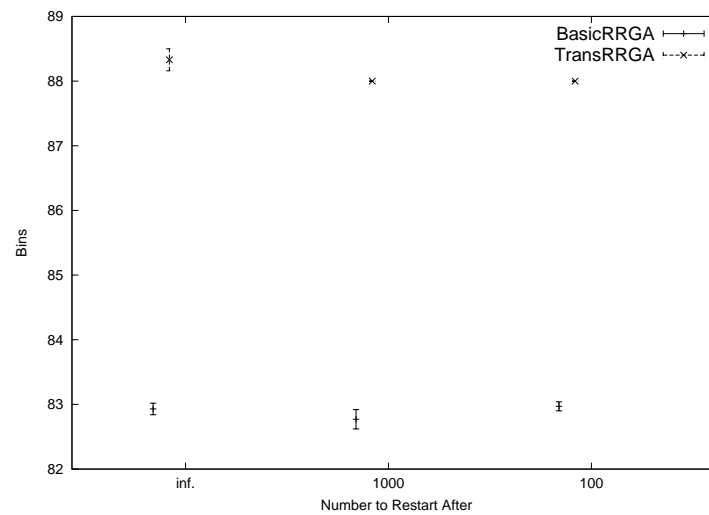


Figure B.48: Comparison of Best Results Between Representations on Problem Instance *h28*

B.2 Graph Colouring Problem

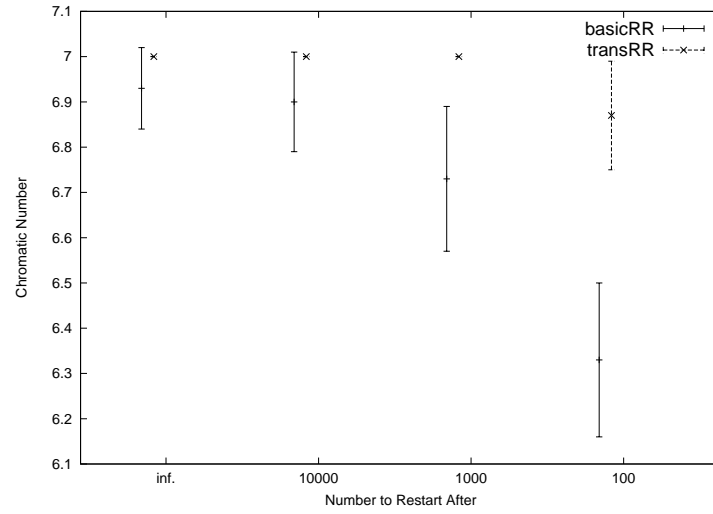


Figure B.49: Comparison of Best Results Between Representations on Problem Instance *DSJC125.1*

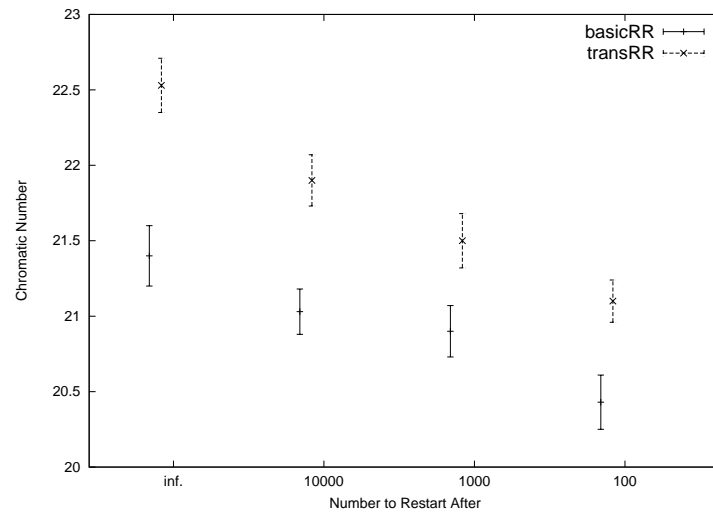


Figure B.50: Comparison of Best Results Between Representations on Problem Instance *DSJC125.5*

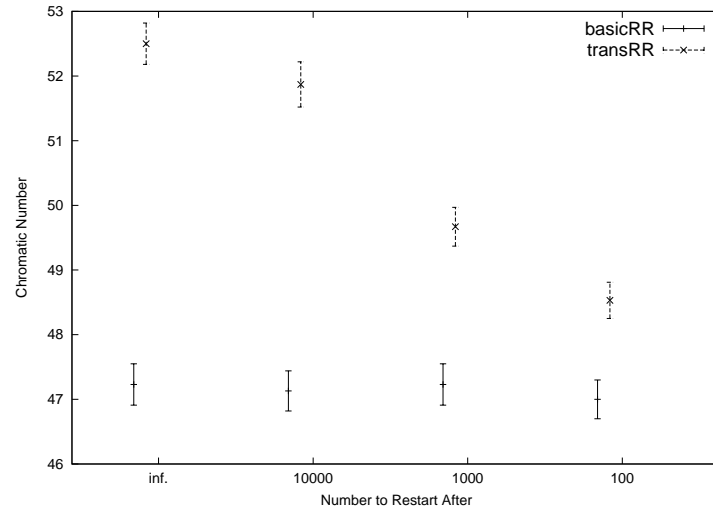


Figure B.51: Comparison of Best Results Between Representations on Problem Instance *DSJC125.9*

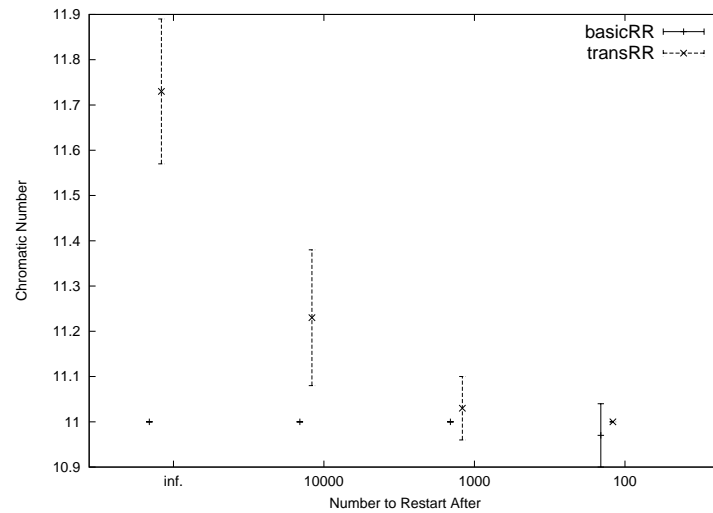


Figure B.52: Comparison of Best Results Between Representations on Problem Instance *DSJC250.1*

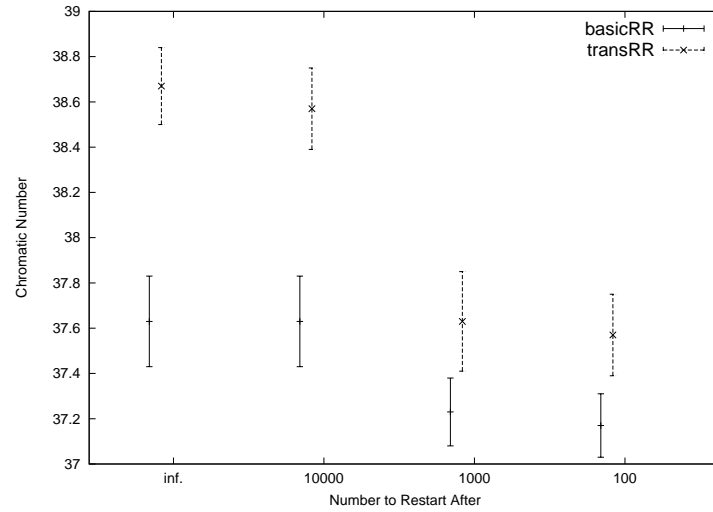


Figure B.53: Comparison of Best Results Between Representations on Problem Instance *DSJC250.5*

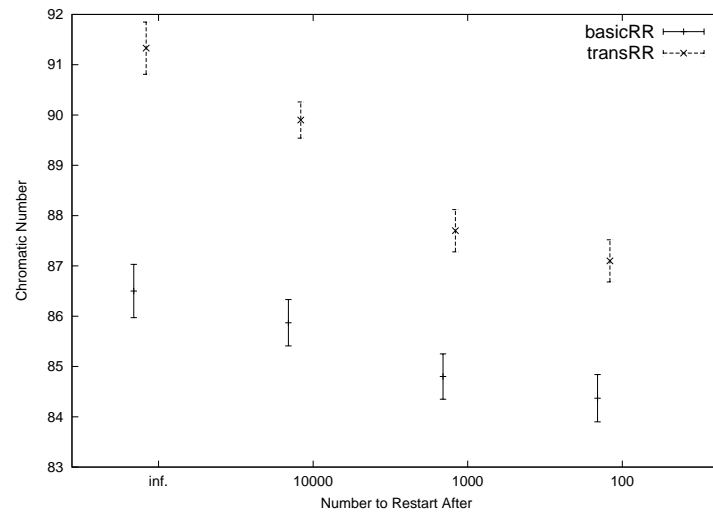


Figure B.54: Comparison of Best Results Between Representations on Problem Instance *DSJC250.9*

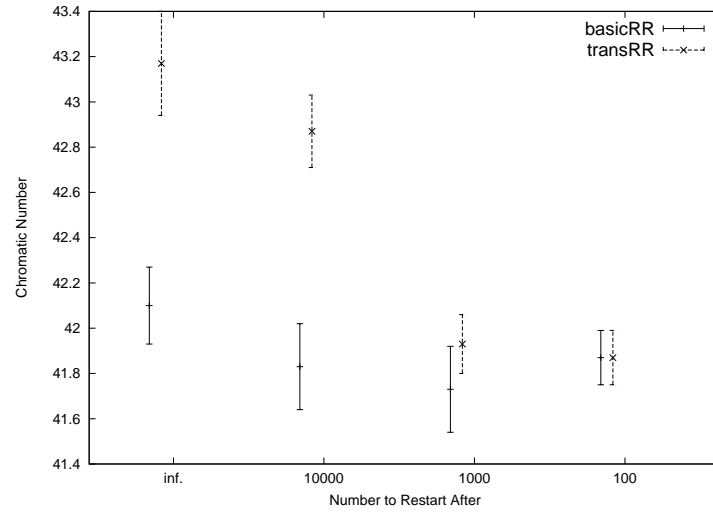


Figure B.55: Comparison of Best Results Between Representations on Problem Instance *flat300280*

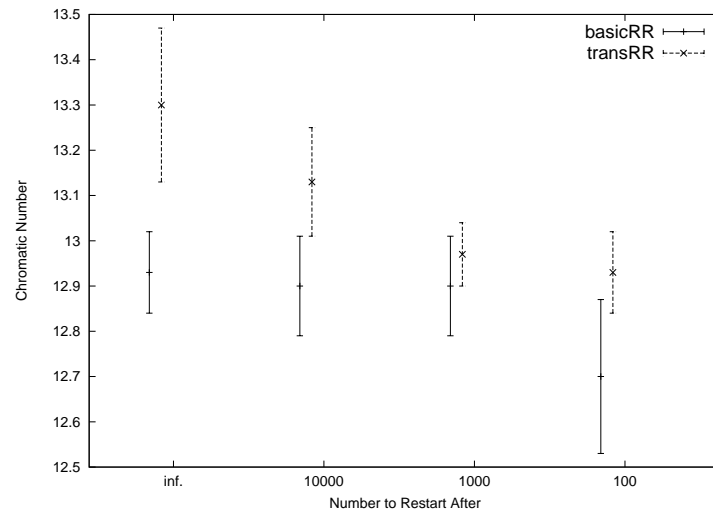


Figure B.56: Comparison of Best Results Between Representations on Problem Instance *queen1010*

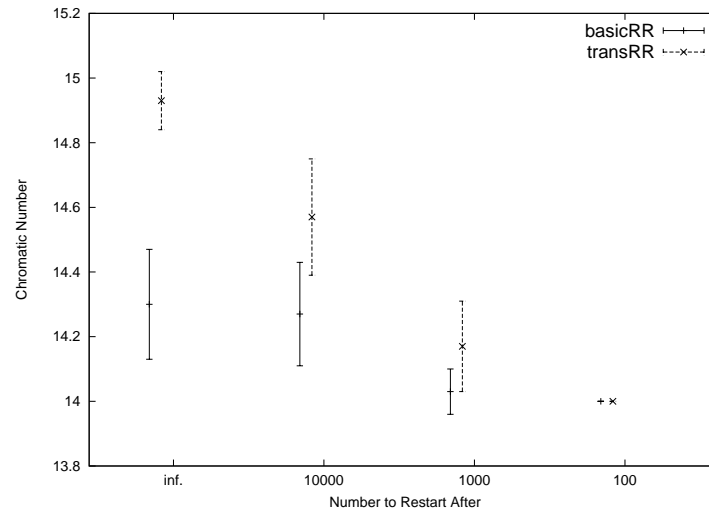


Figure B.57: Comparison of Best Results Between Representations on Problem Instance *queen1111*

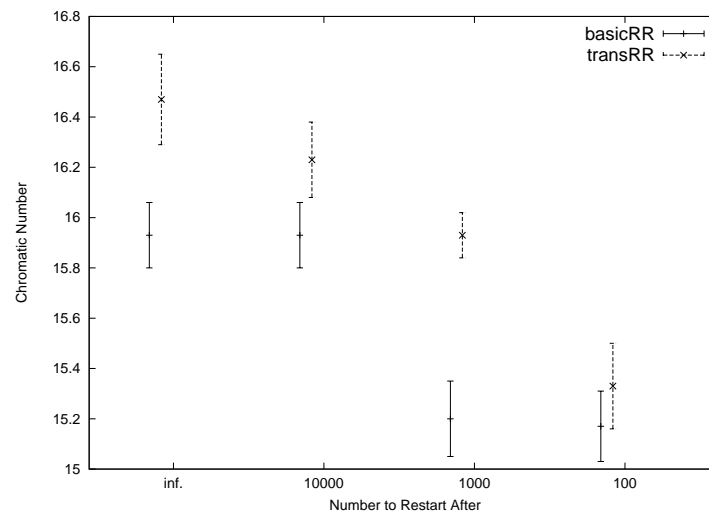


Figure B.58: Comparison of Best Results Between Representations on Problem Instance *queen1212*

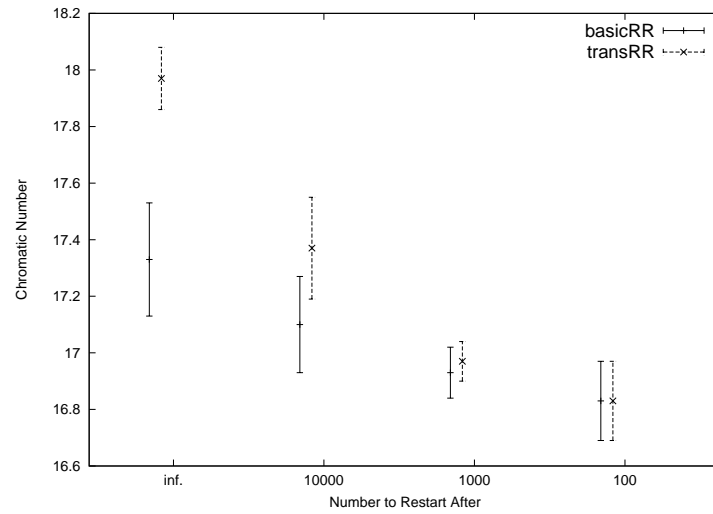


Figure B.59: Comparison of Best Results Between Representations on Problem Instance *queen1313*

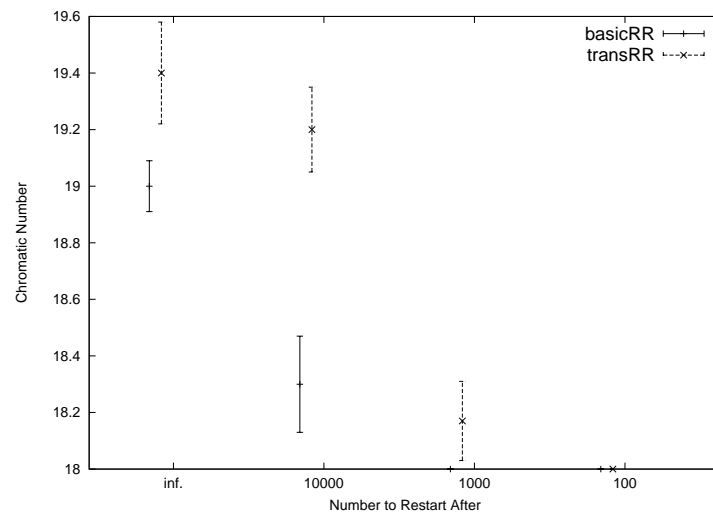


Figure B.60: Comparison of Best Results Between Representations on Problem Instance *queen1414*

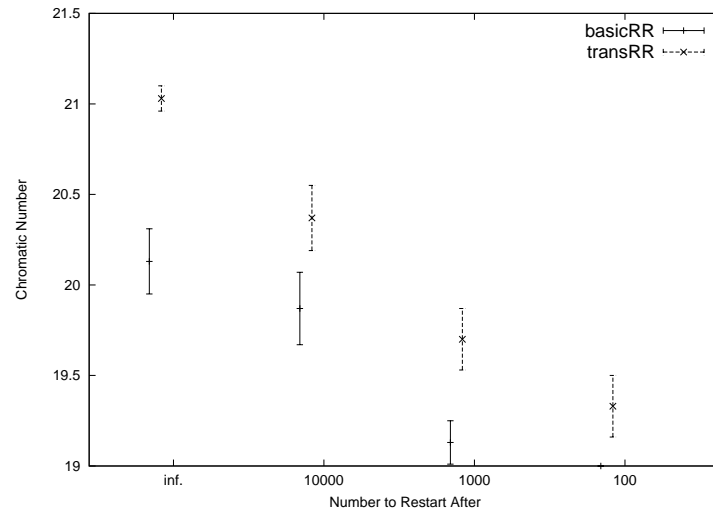


Figure B.61: Comparison of Best Results Between Representations on Problem Instance *queen1515*

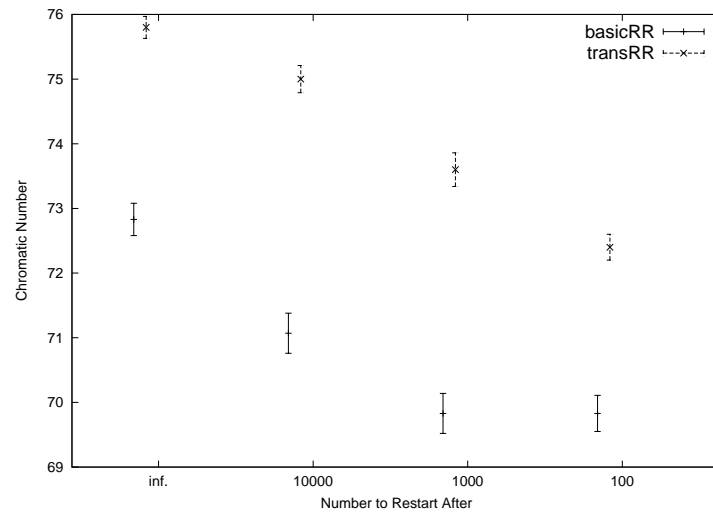


Figure B.62: Comparison of Best Results Between Representations on Problem Instance *r250.5*

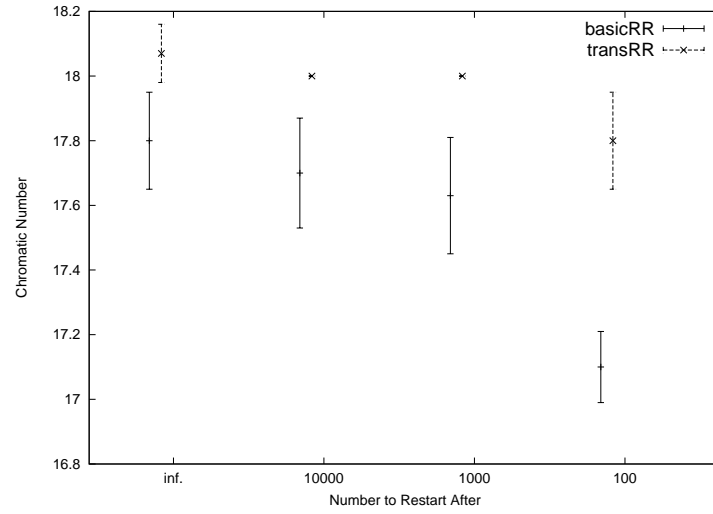


Figure B.63: Comparison of Best Results Between Representations on Problem Instance *DSJC500.1*

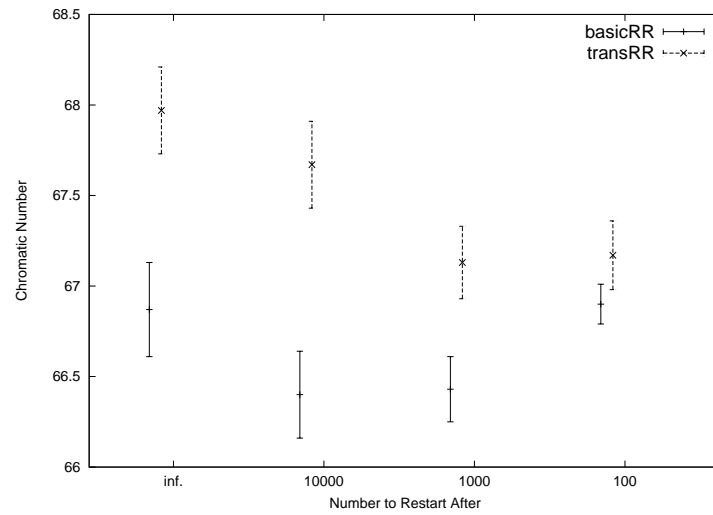


Figure B.64: Comparison of Best Results Between Representations on Problem Instance *DSJC500.5*

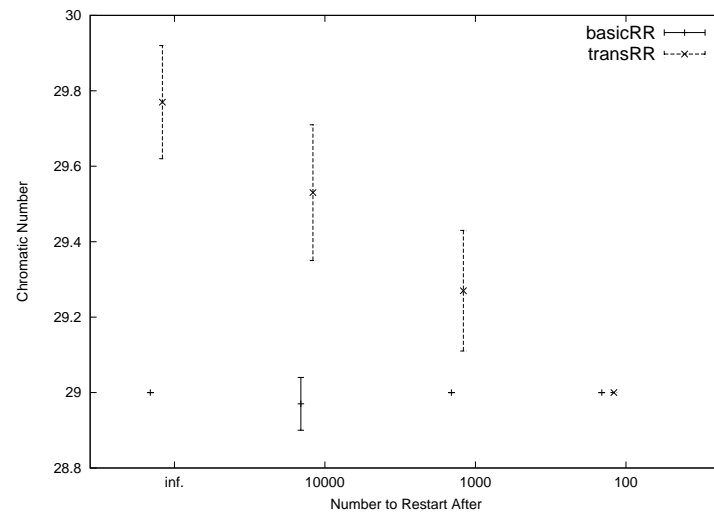


Figure B.65: Comparison of Best Results Between Representations on Problem Instance *DSJC1000.1*

B.3 Travelling Salesman Problem: Large Problem Instances

B.3.1 No Post Optimization

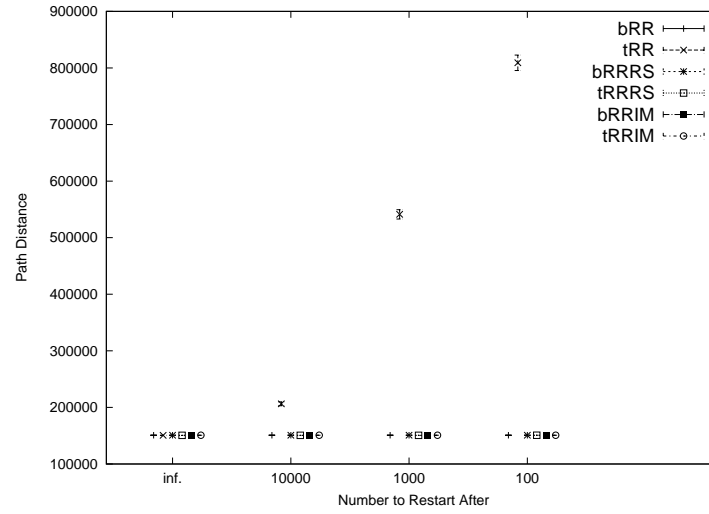


Figure B.66: Comparison of Best Results Between Representations on Problem Instance d1291

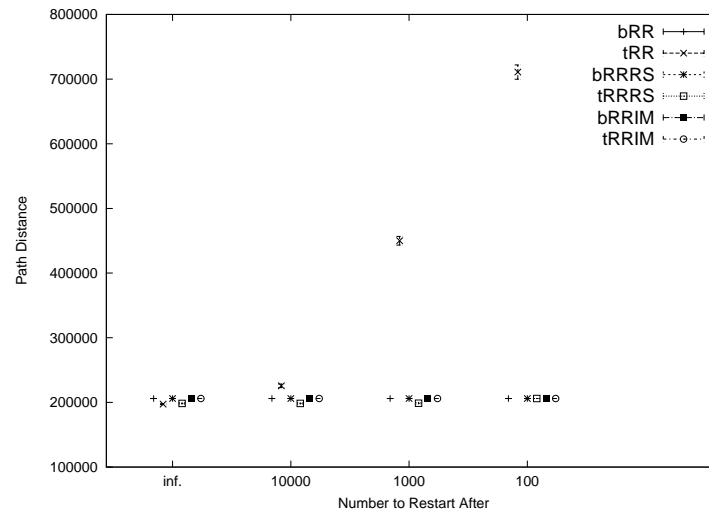


Figure B.67: Comparison of Best Results Between Representations on Problem Instance d1655

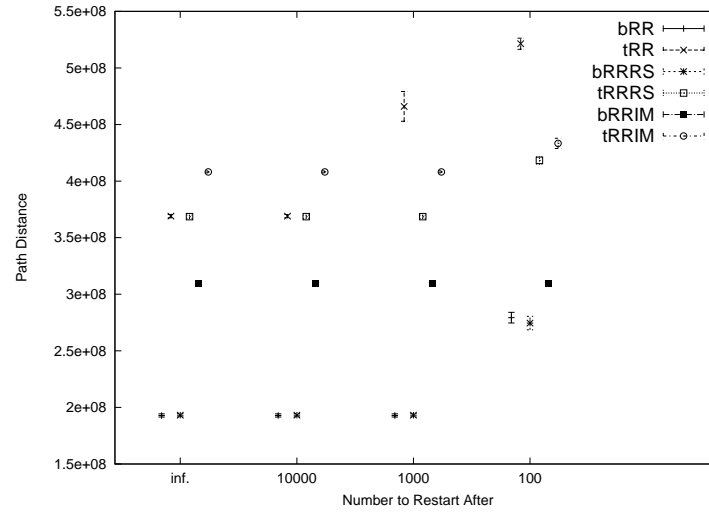


Figure B.68: Comparison of Best Results Between Representations on Problem Instance dsj1000

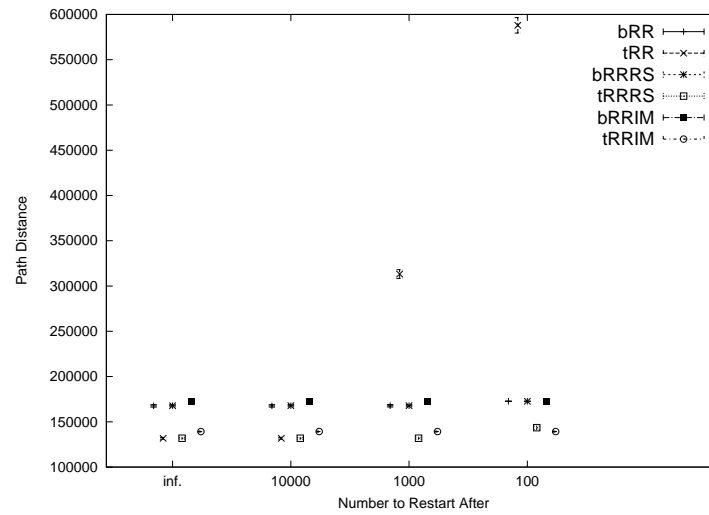


Figure B.69: Comparison of Best Results Between Representations on Problem Instance fl1400

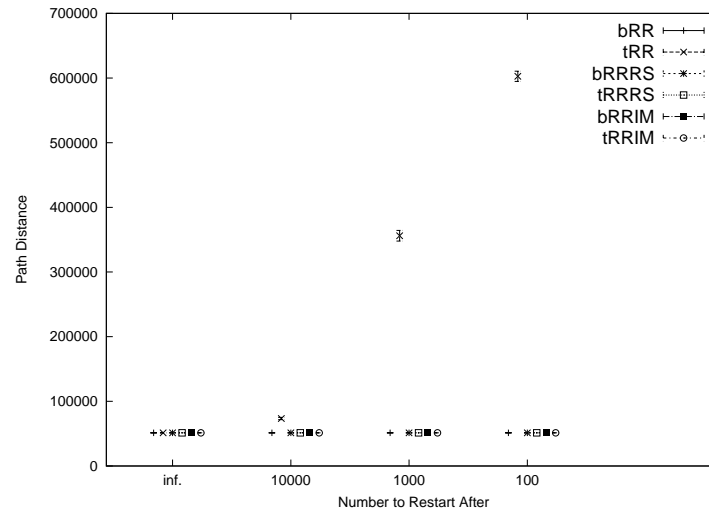


Figure B.70: Comparison of Best Results Between Representations on Problem Instance fl1577

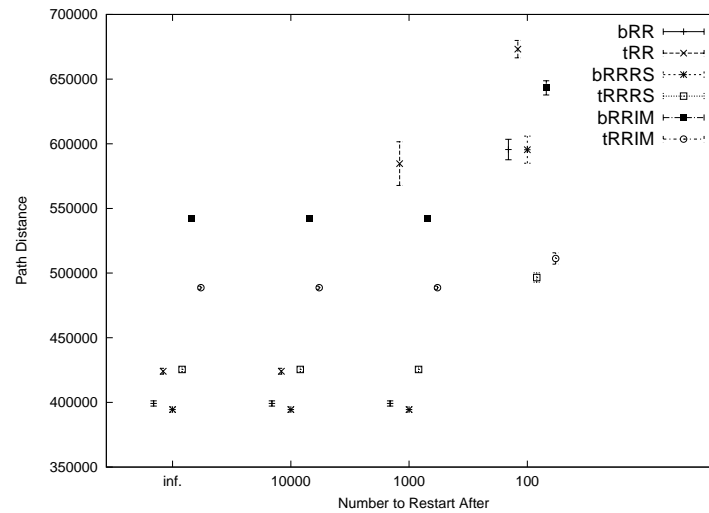


Figure B.71: Comparison of Best Results Between Representations on Problem Instance nrw1379

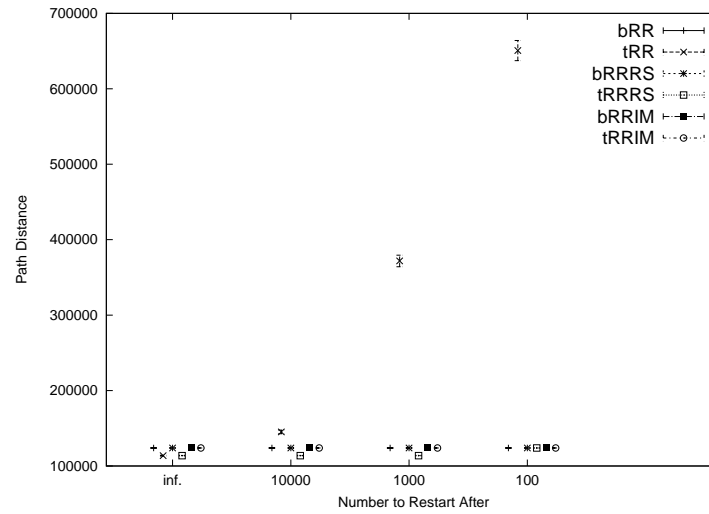


Figure B.72: Comparison of Best Results Between Representations on Problem Instance pcb1173

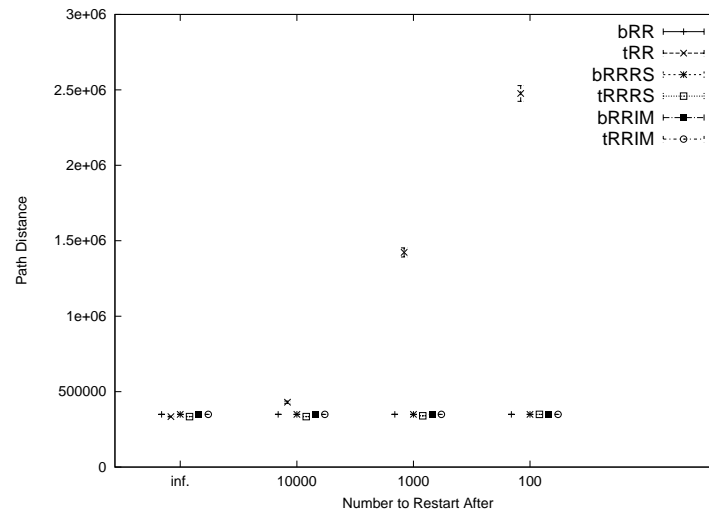


Figure B.73: Comparison of Best Results Between Representations on Problem Instance pr1002

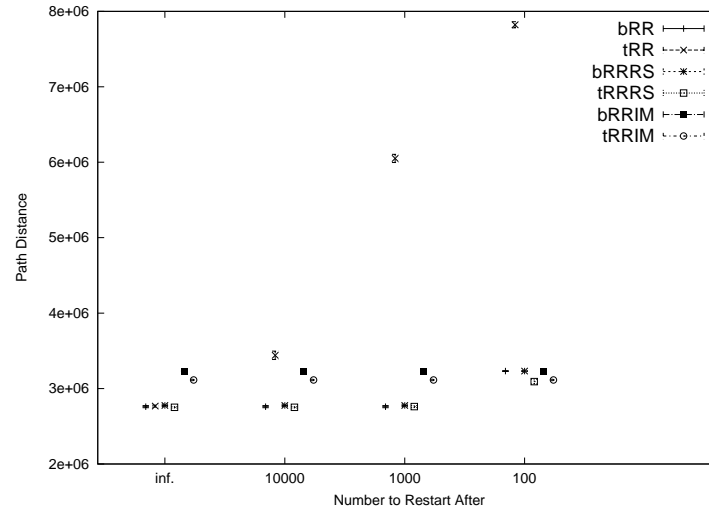


Figure B.74: Comparison of Best Results Between Representations on Problem Instance rl1304

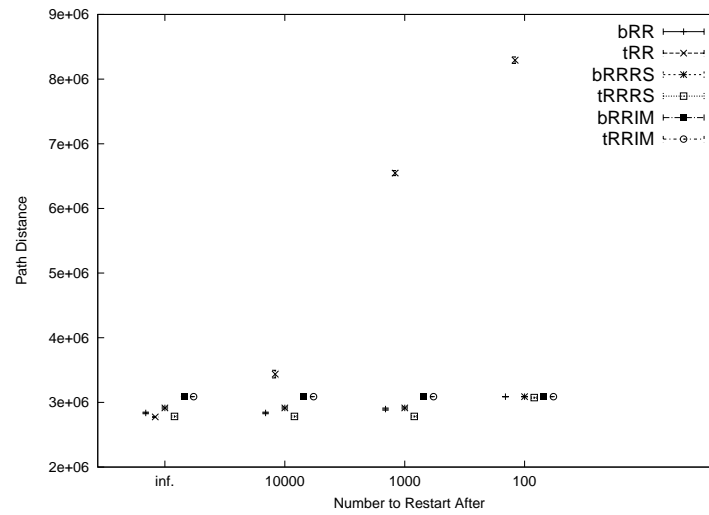


Figure B.75: Comparison of Best Results Between Representations on Problem Instance rl1323

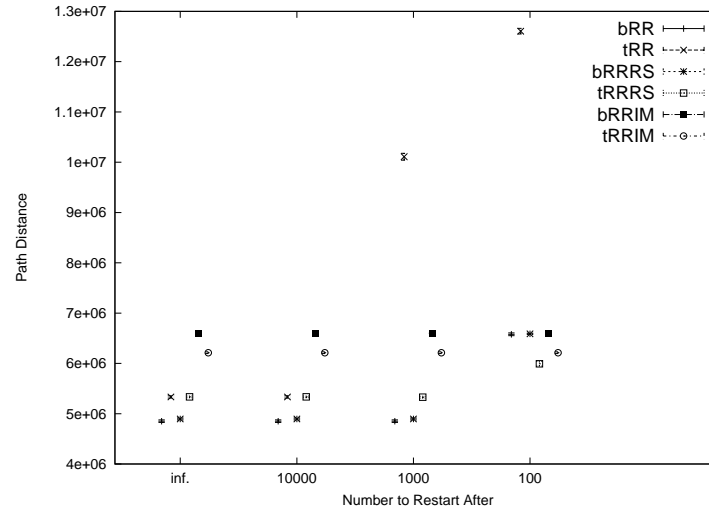


Figure B.76: Comparison of Best Results Between Representations on Problem Instance rl1889

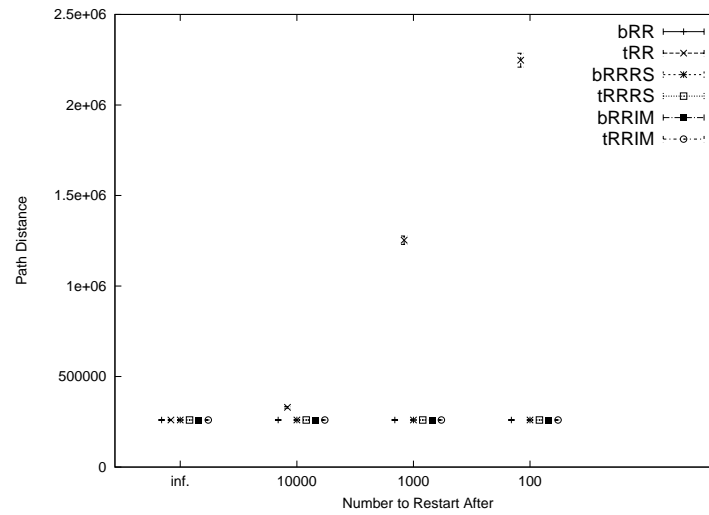


Figure B.77: Comparison of Best Results Between Representations on Problem Instance u1060

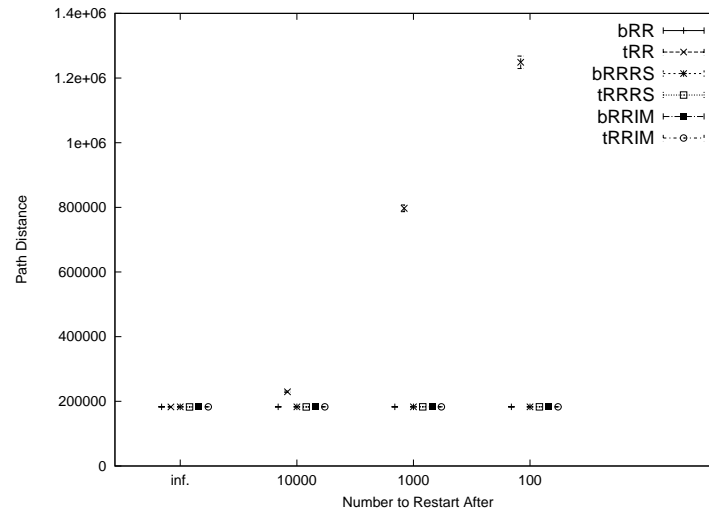


Figure B.78: Comparison of Best Results Between Representations on Problem Instance u1432

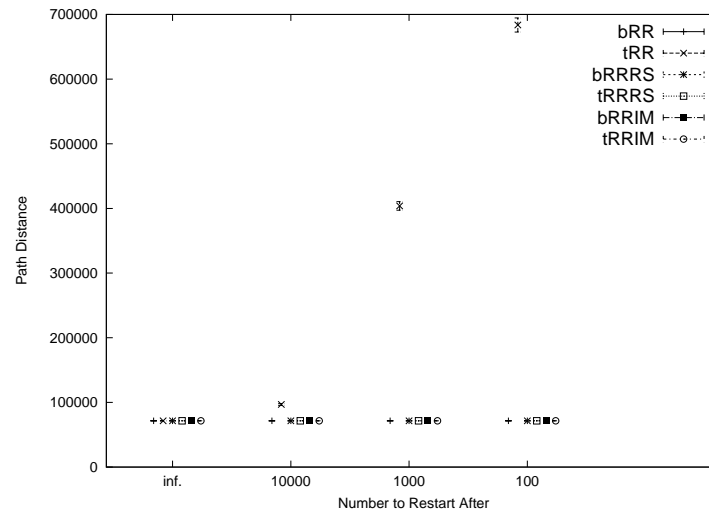


Figure B.79: Comparison of Best Results Between Representations on Problem Instance u1817

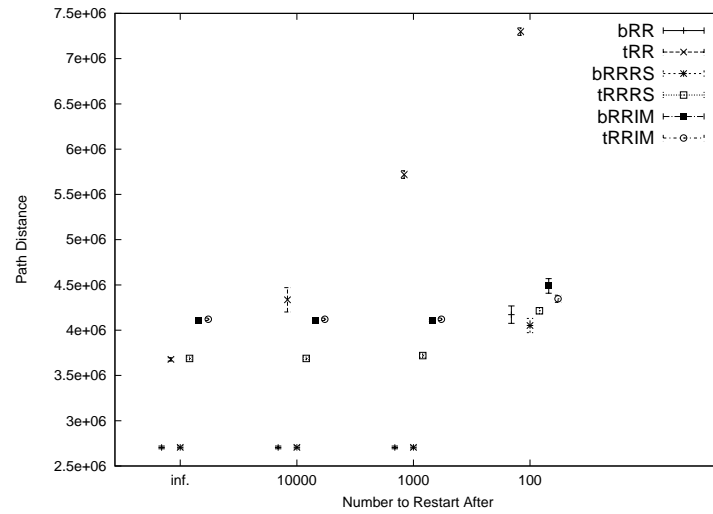


Figure B.80: Comparison of Best Results Between Representations on Problem Instance vm1084

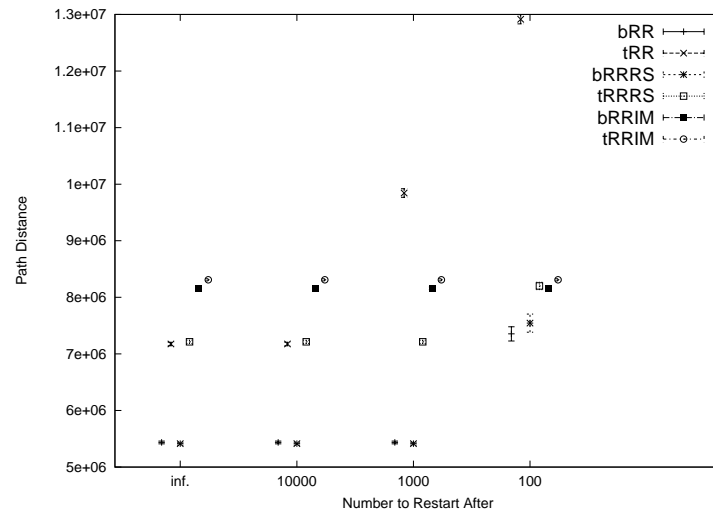


Figure B.81: Comparison of Best Results Between Representations on Problem Instance vm1748

B.3.2 Post Optimization

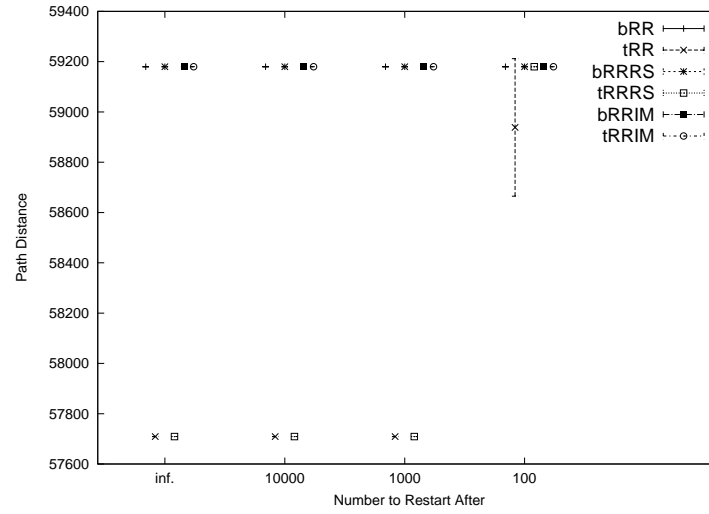


Figure B.82: Comparison of Best Results Between Representations on Problem Instance d1291

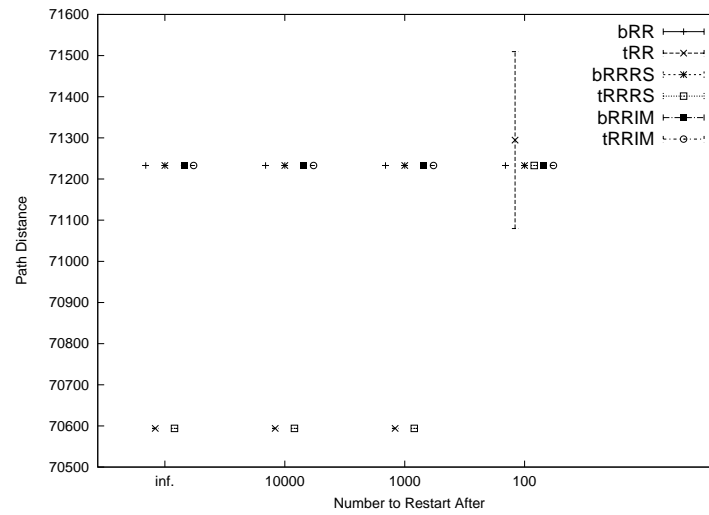


Figure B.83: Comparison of Best Results Between Representations on Problem Instance d1655

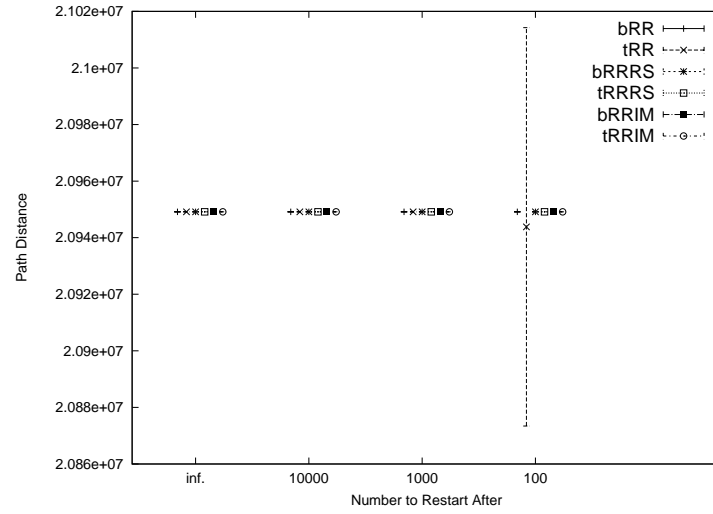


Figure B.84: Comparison of Best Results Between Representations on Problem Instance dsj1000

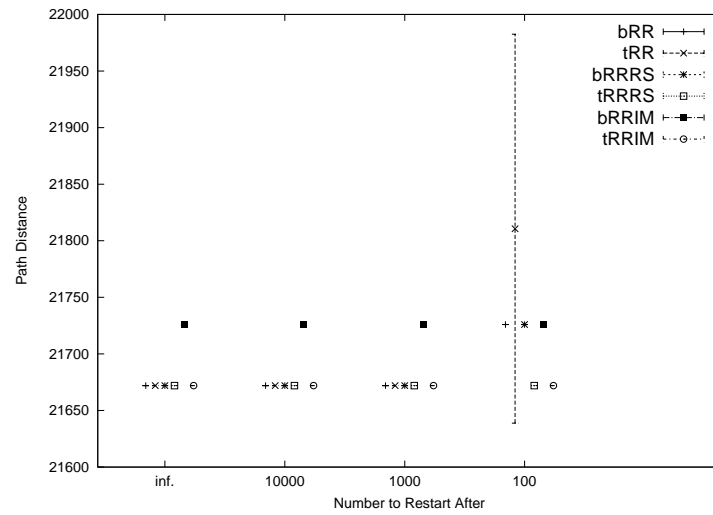


Figure B.85: Comparison of Best Results Between Representations on Problem Instance fl1400

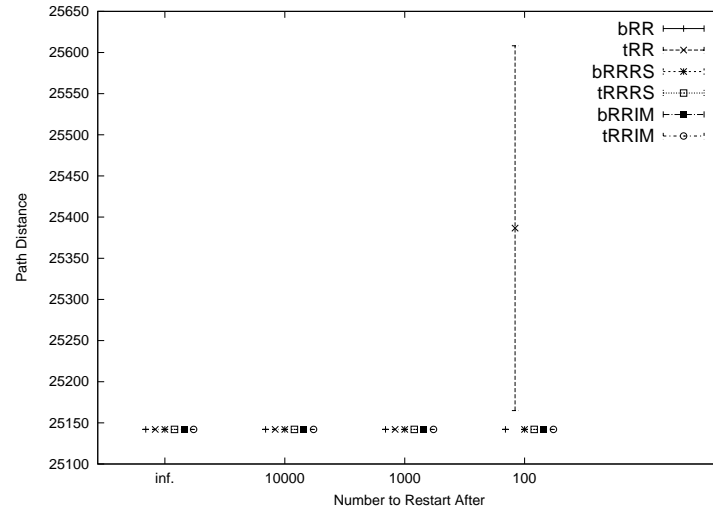


Figure B.86: Comparison of Best Results Between Representations on Problem Instance fl1577

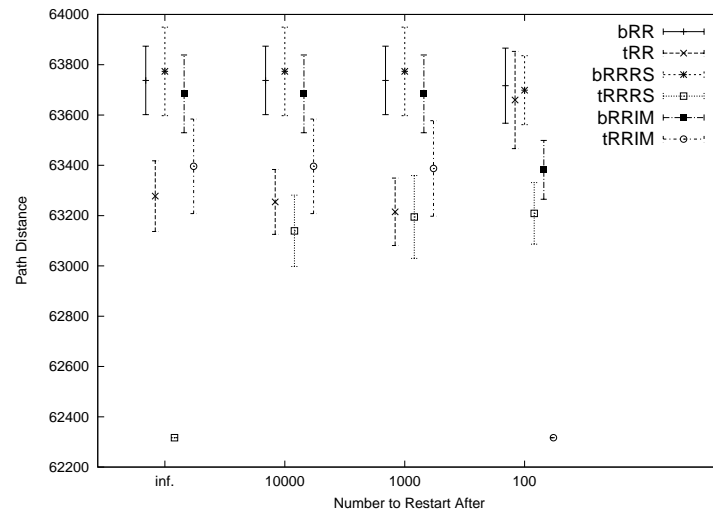


Figure B.87: Comparison of Best Results Between Representations on Problem Instance nrw1379

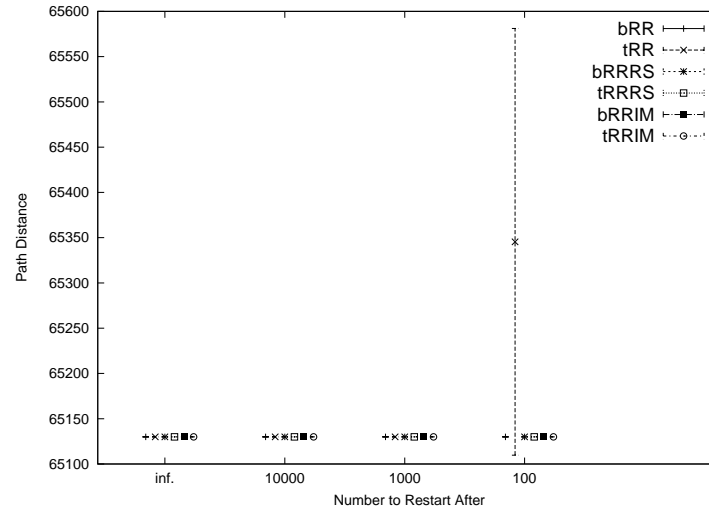


Figure B.88: Comparison of Best Results Between Representations on Problem Instance pcb1173

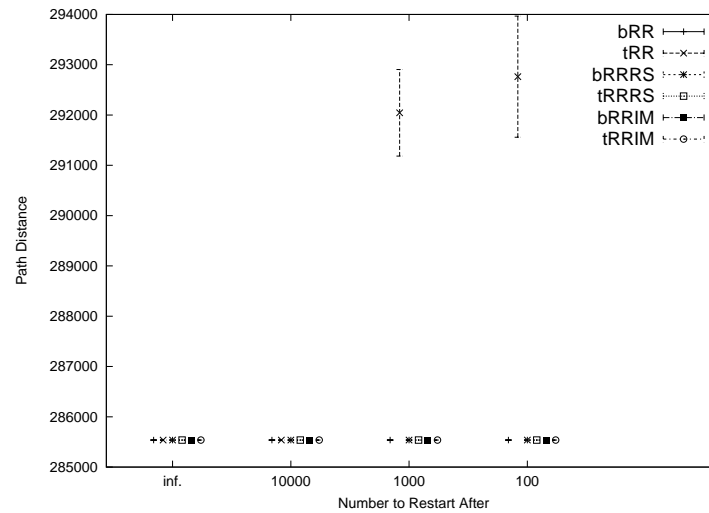


Figure B.89: Comparison of Best Results Between Representations on Problem Instance pr1002

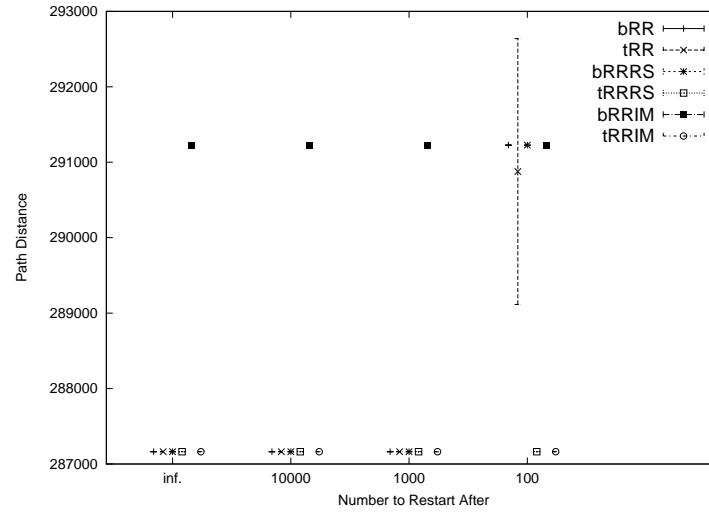


Figure B.90: Comparison of Best Results Between Representations on Problem Instance rl1304

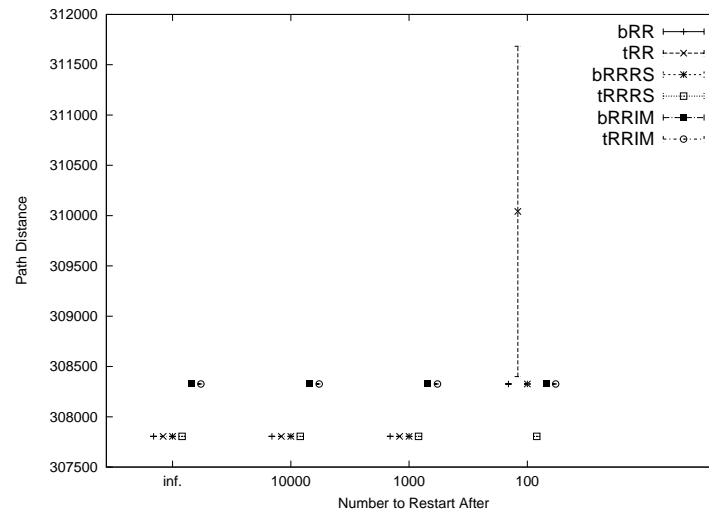


Figure B.91: Comparison of Best Results Between Representations on Problem Instance rl1323

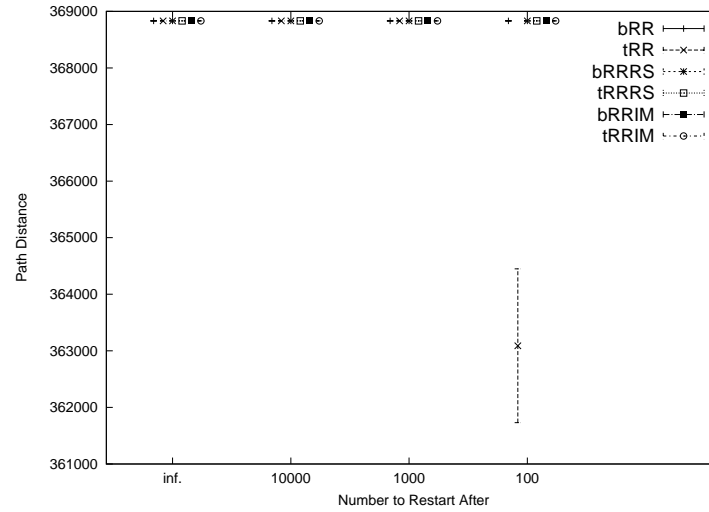


Figure B.92: Comparison of Best Results Between Representations on Problem Instance rl1889

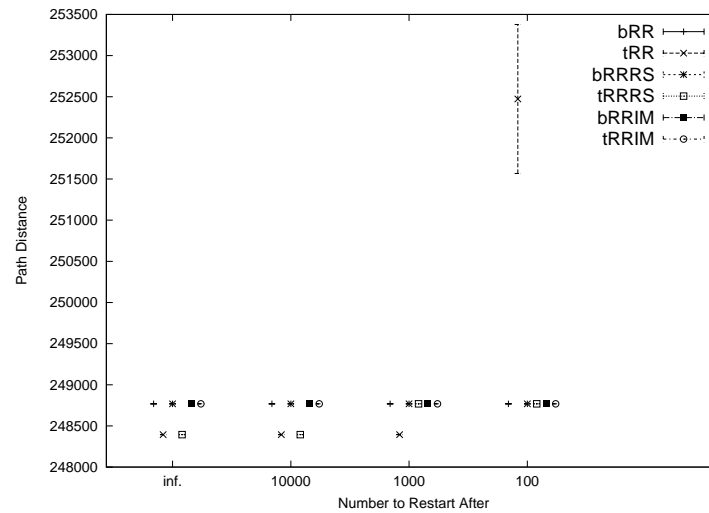


Figure B.93: Comparison of Best Results Between Representations on Problem Instance u1060

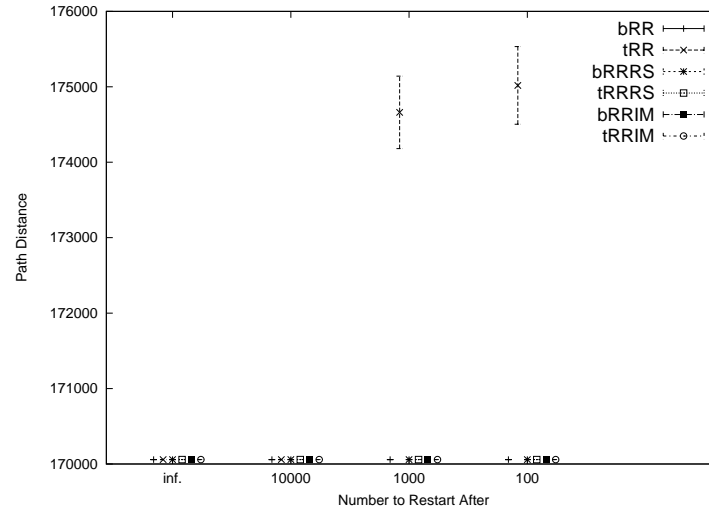


Figure B.94: Comparison of Best Results Between Representations on Problem Instance u1432

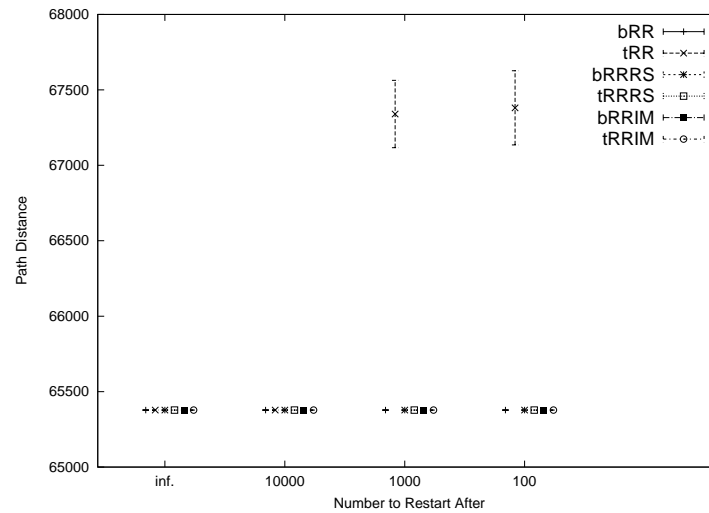


Figure B.95: Comparison of Best Results Between Representations on Problem Instance u1817

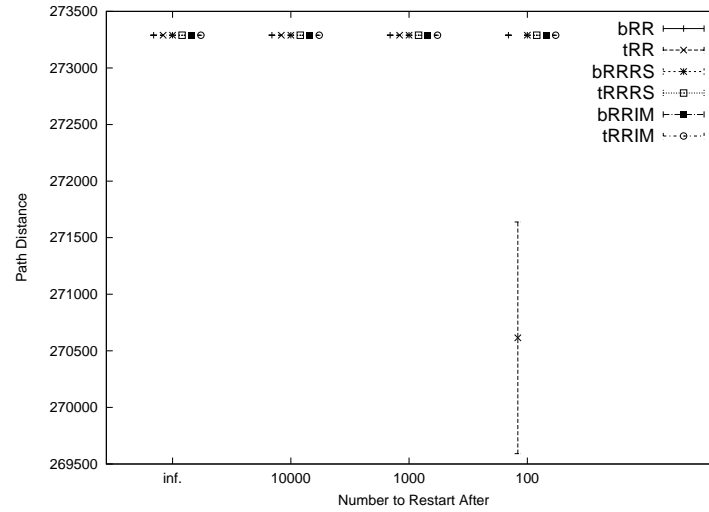


Figure B.96: Comparison of Best Results Between Representations on Problem Instance vm1084

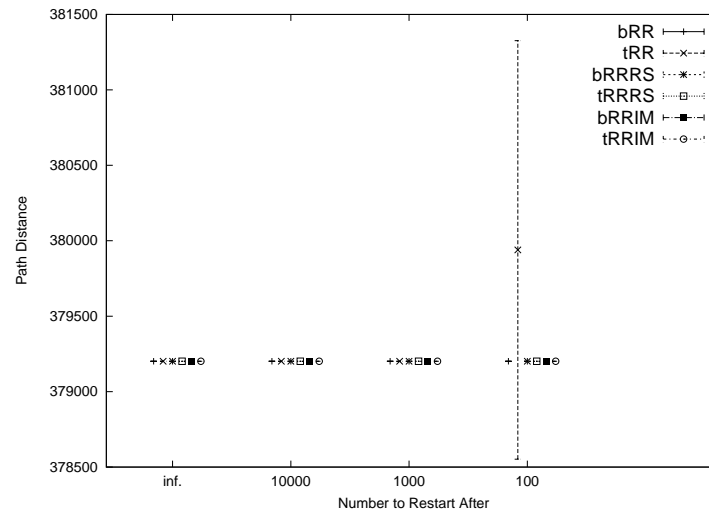


Figure B.97: Comparison of Best Results Between Representations on Problem Instance vm1748

B.3.3 Comparison Between No Post Optimization Results and Post Optimization Results

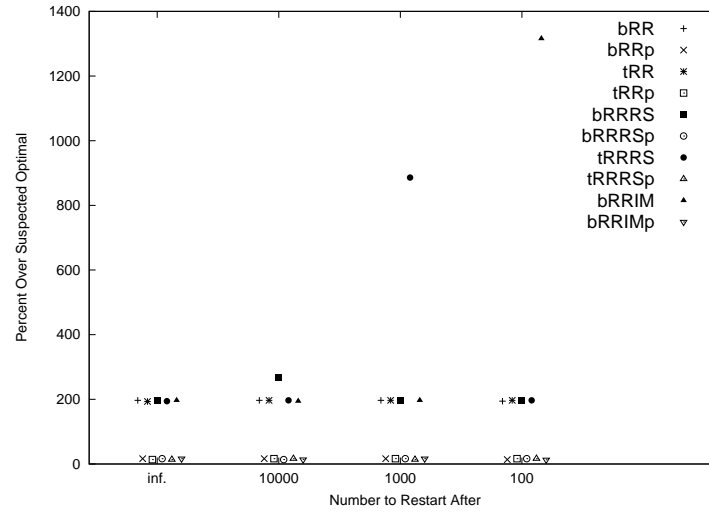


Figure B.98: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance d1291

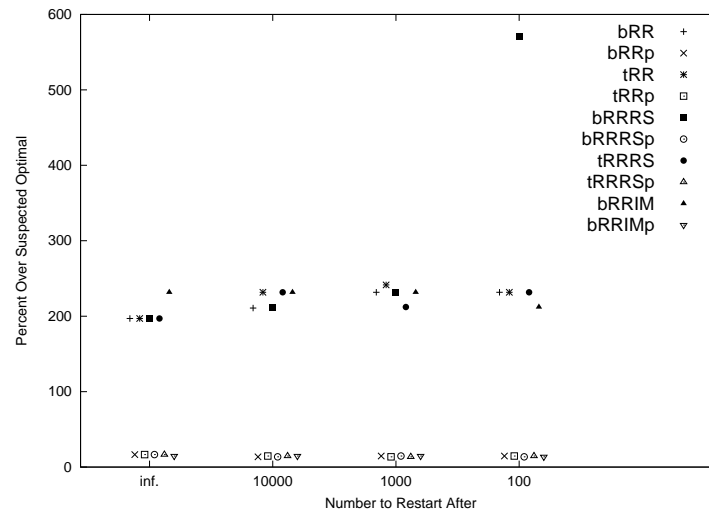


Figure B.99: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance d1655

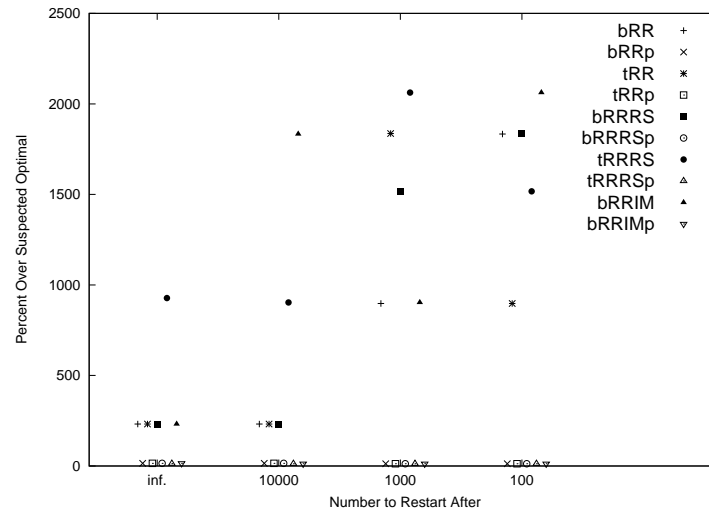


Figure B.100: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance dsj1000

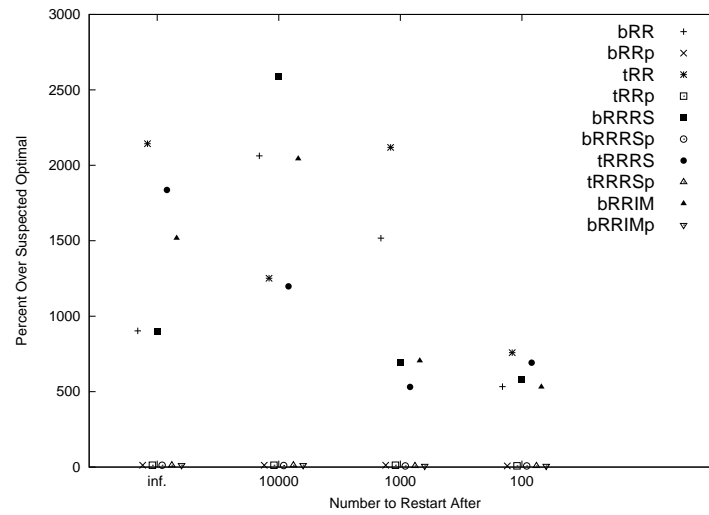


Figure B.101: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance fl1400

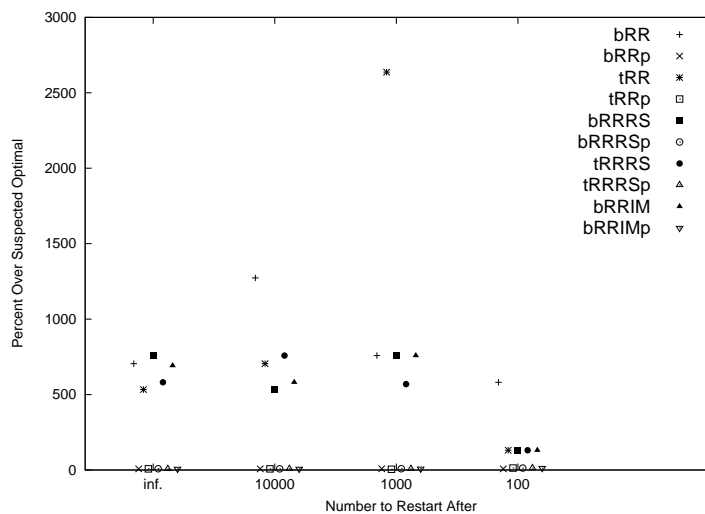


Figure B.102: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance fl1577

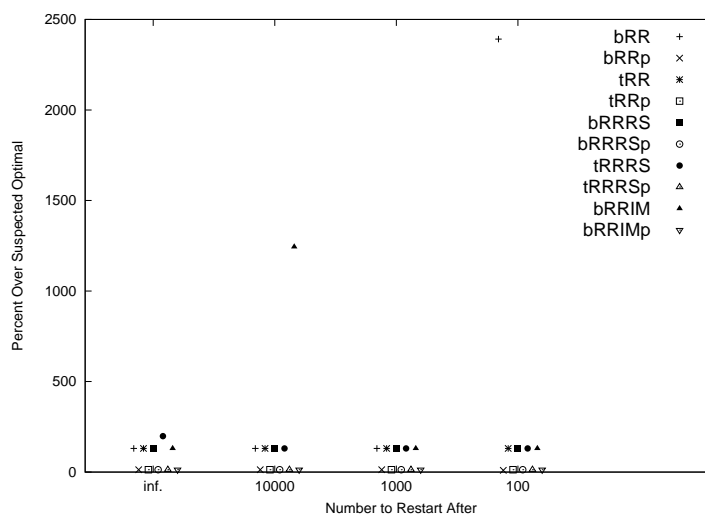


Figure B.103: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance nrw1379

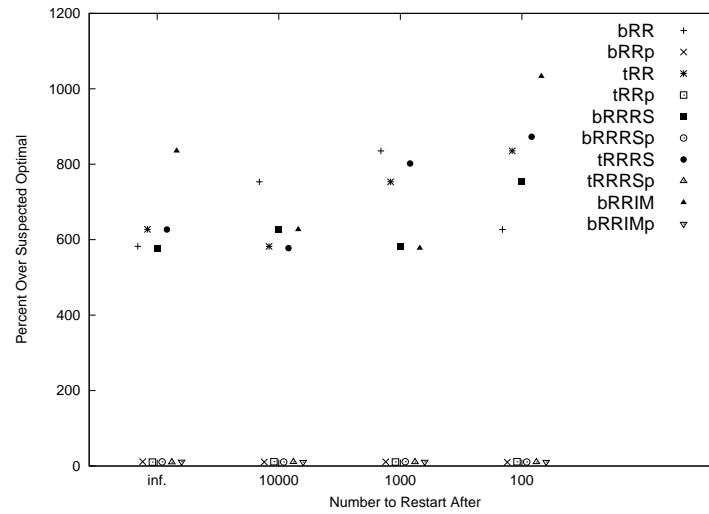


Figure B.104: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance pcb1173

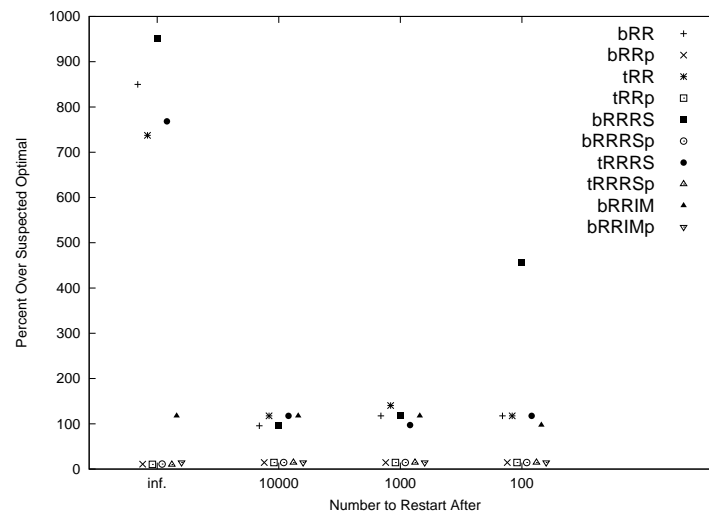


Figure B.105: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance pr1002

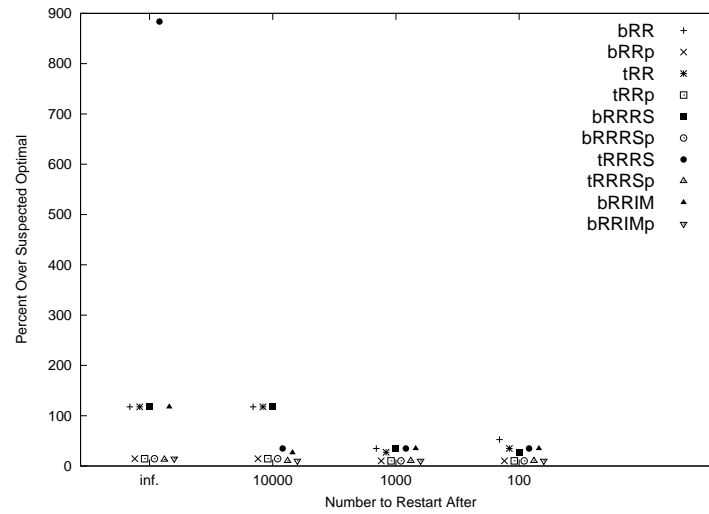


Figure B.106: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance rl1304

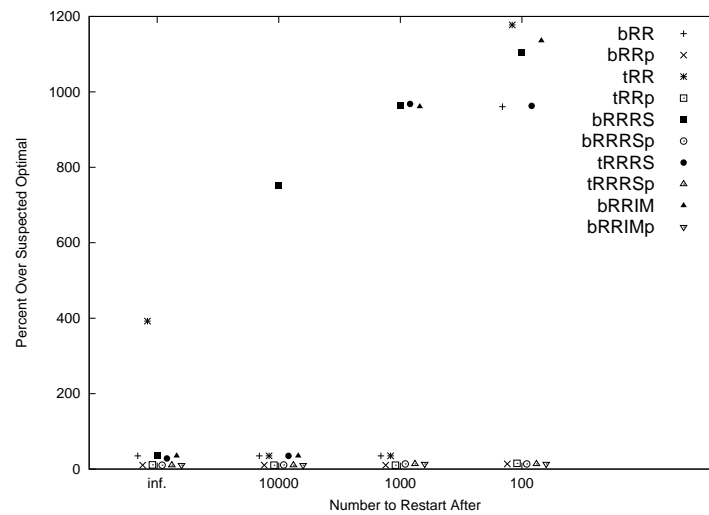


Figure B.107: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance rl1323

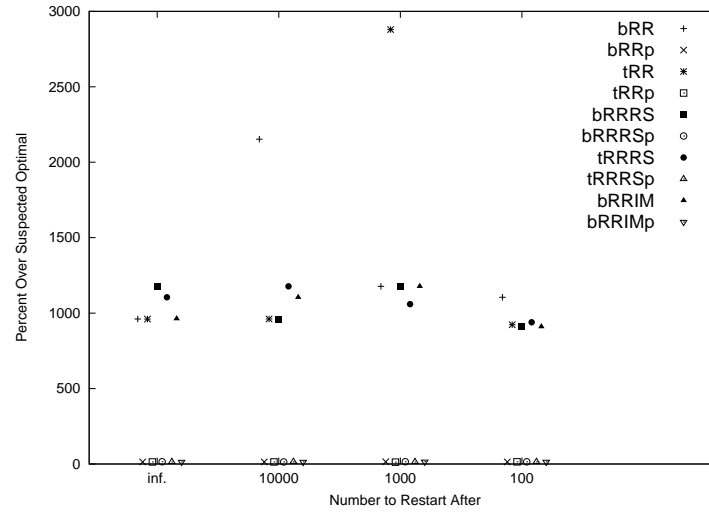


Figure B.108: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance rl1889

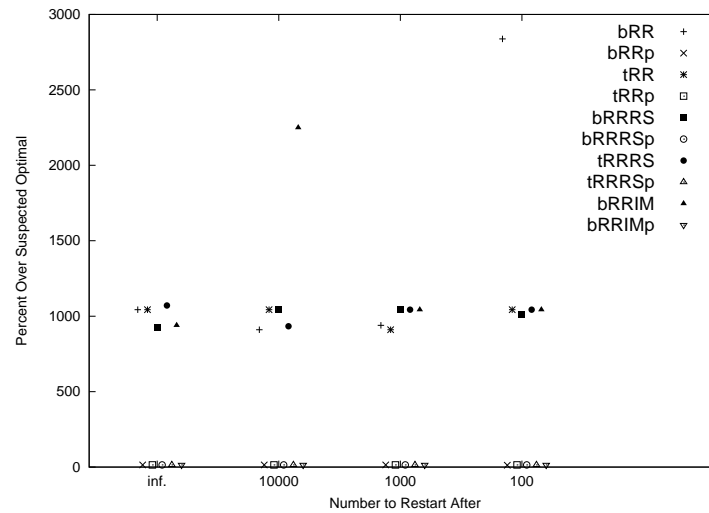


Figure B.109: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance u1060

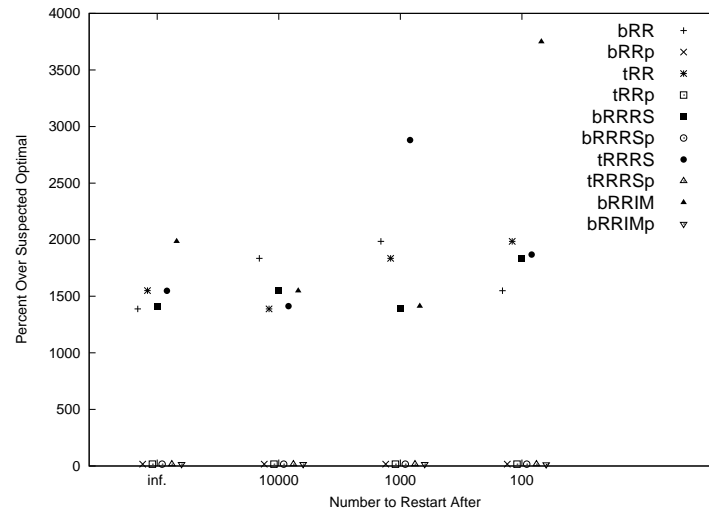


Figure B.110: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance u1432

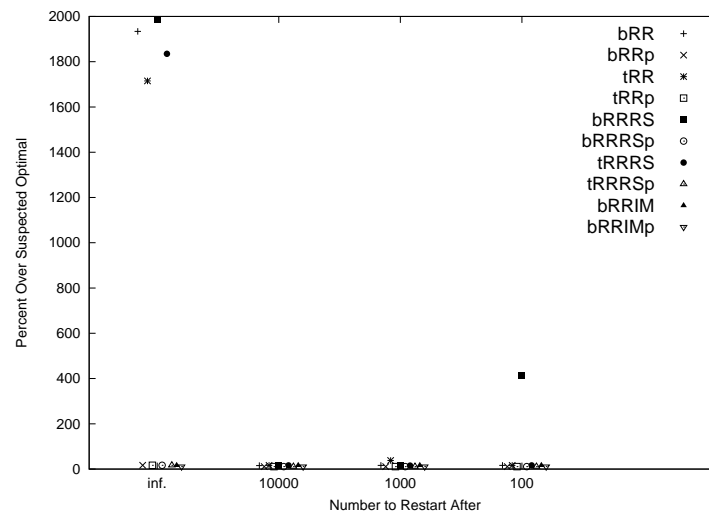


Figure B.111: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance u1817

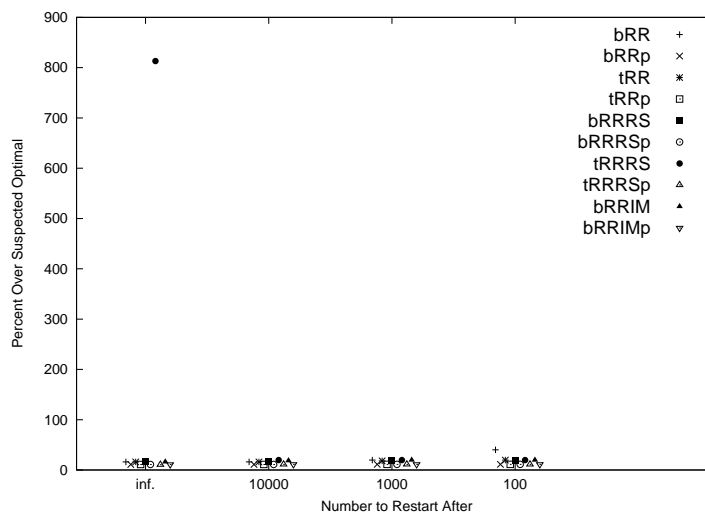


Figure B.112: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance vm1084

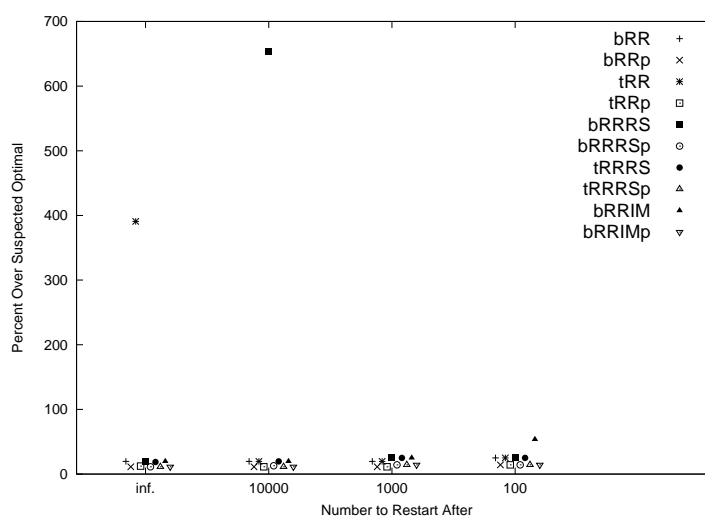


Figure B.113: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance vm1748

B.4 DNA Error Correction

B.4.1 Code 1

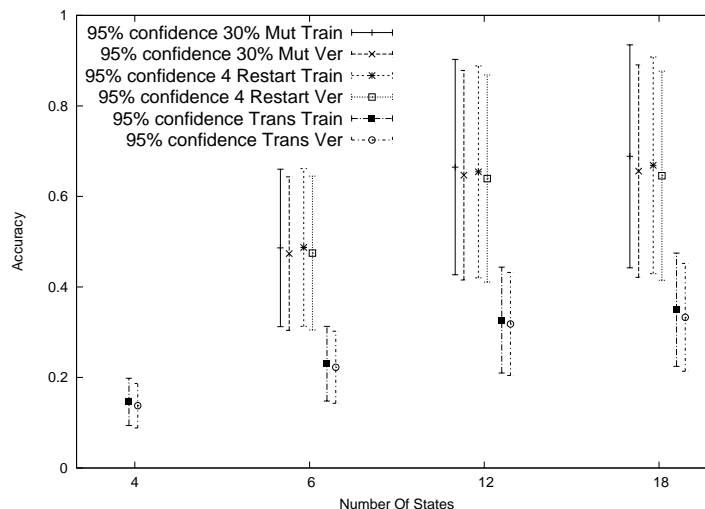


Figure B.114: Best performing Experiment results summed over all three distances for direct analysis for each experiment set on the single $(12, 55, 7)_4$ error code

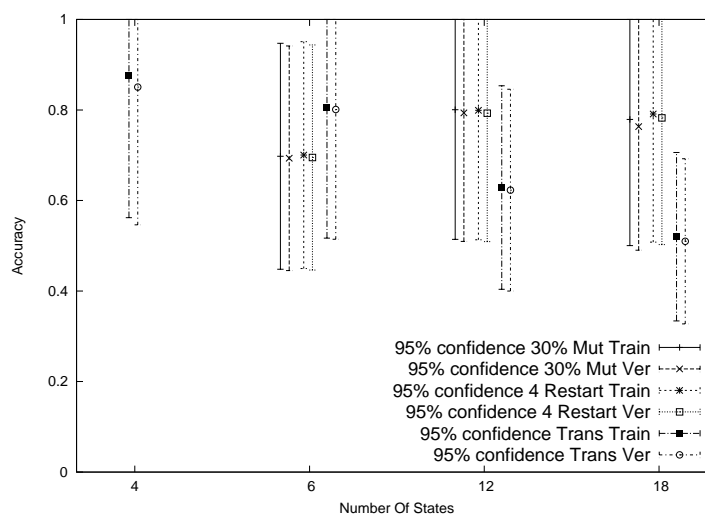


Figure B.115: Best performing Experiment results summed over all three distances for fuzzy analysis for each experiment set on the single $(12, 55, 7)_4$ error code

B.4.2 Code 2

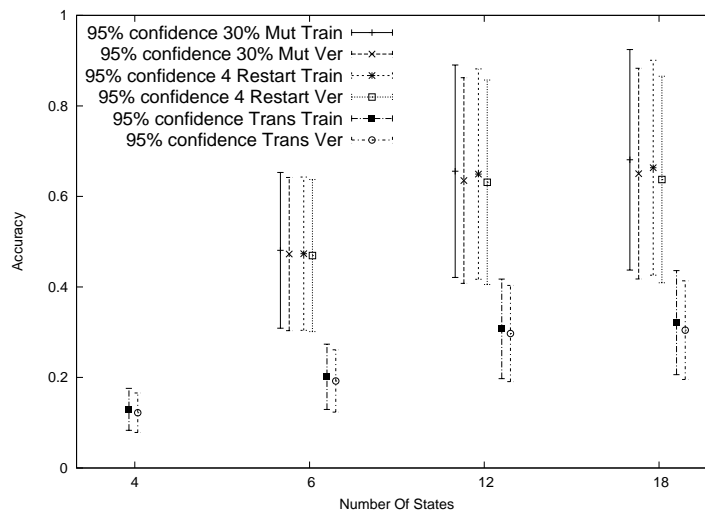


Figure B.116: Best performing Experiment results summed over all three distances for direct analysis for each experiment set on the $(12, 60, 7)_4$ error code

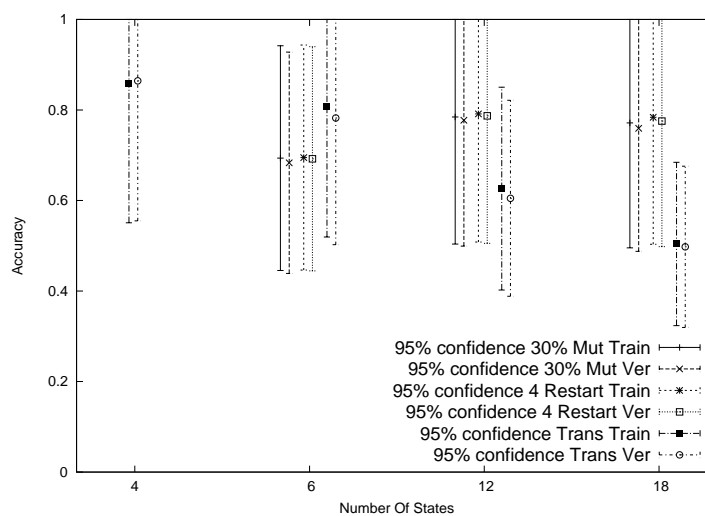


Figure B.117: Best performing Experiment results summed over all three distances for fuzzy analysis for each experiment set on the first $(12, 60, 7)_4$ error code

B.4.3 Code 3

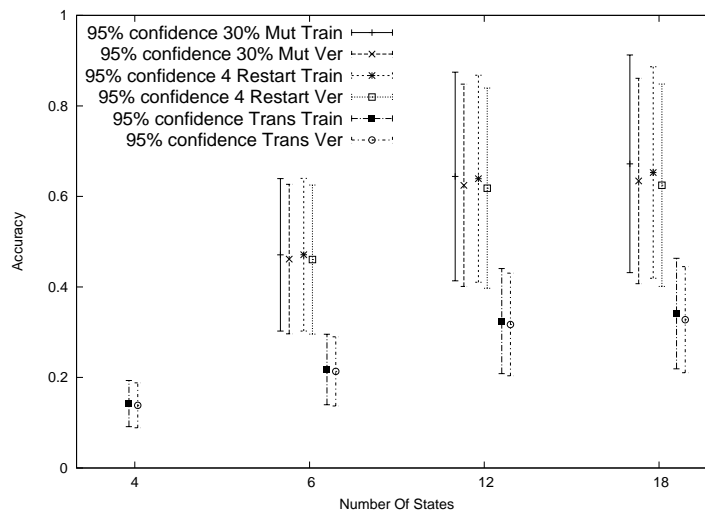


Figure B.118: Best performing Experiment results summed over all three distances for direct analysis for each experiment set on the second $(12, 60, 7)_4$ error code

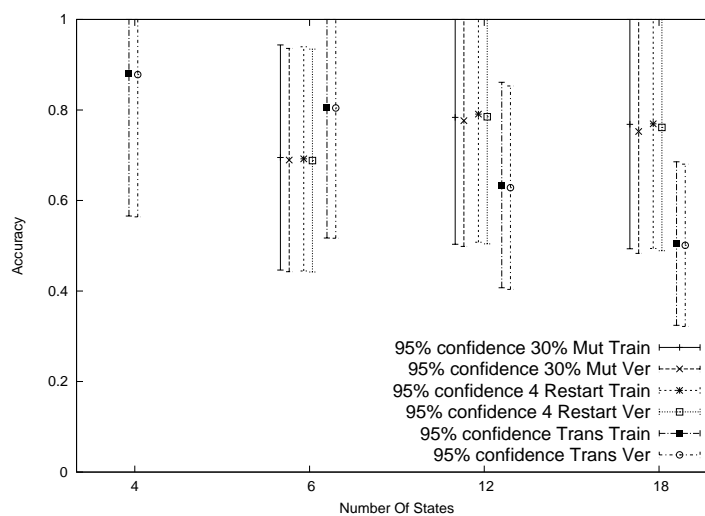


Figure B.119: Best performing Experiment results summed over all three distances for fuzzy analysis for each experiment set on the second $(12, 60, 7)_4$ error code

B.5 DNA Fragment Assembly

B.5.1 First Set of Results

Results With No Post Optimization

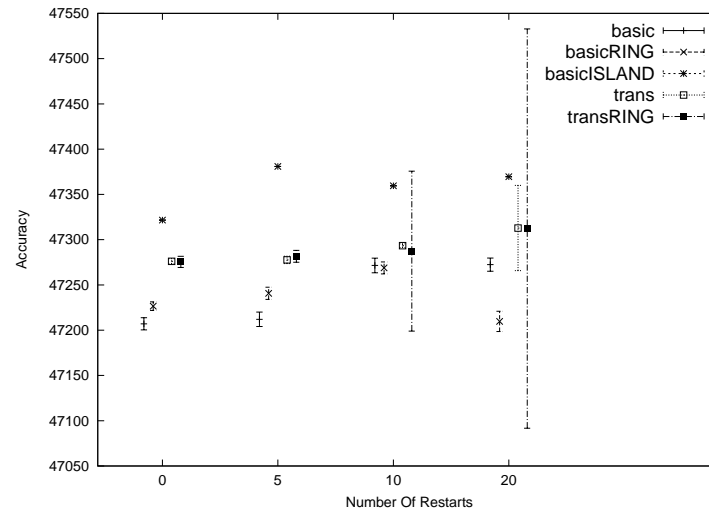


Figure B.120: Comparison of Best Results Between Algorithm Variations on Problem Instance acin1

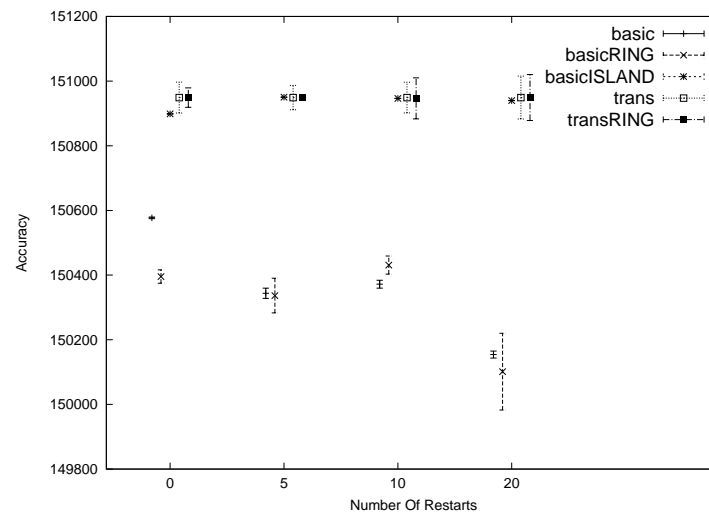


Figure B.121: Comparison of Best Results Between Algorithm Variations on Problem Instance acin2

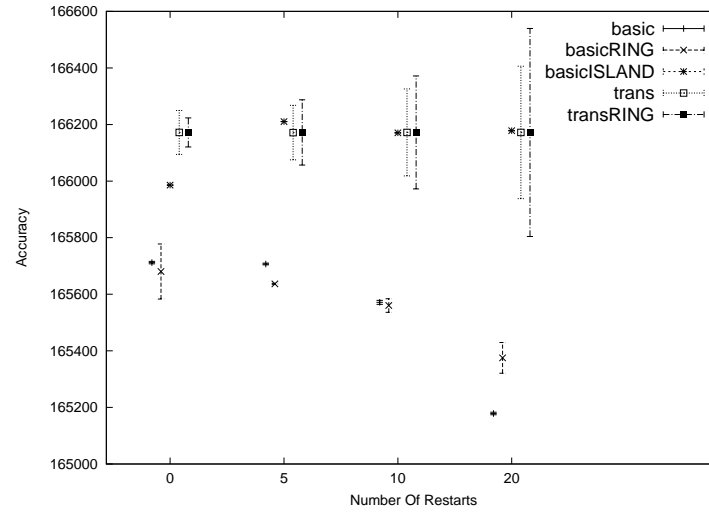


Figure B.122: Comparison of Best Results Between Algorithm Variations on Problem Instance acin3

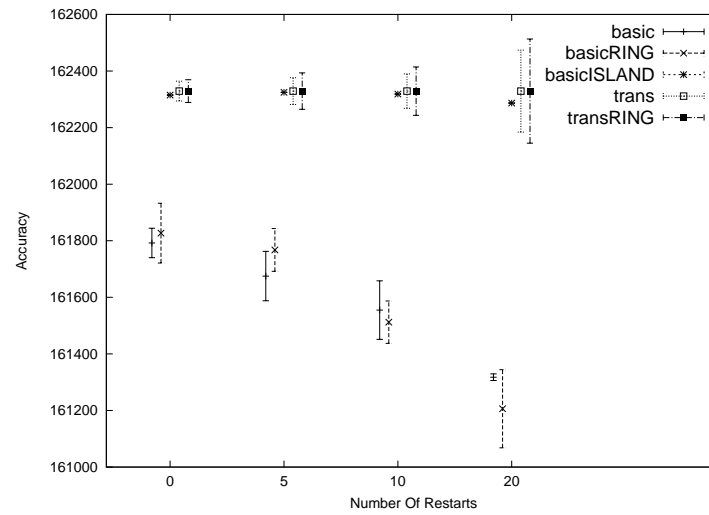


Figure B.123: Comparison of Best Results Between Algorithm Variations on Problem Instance acin5

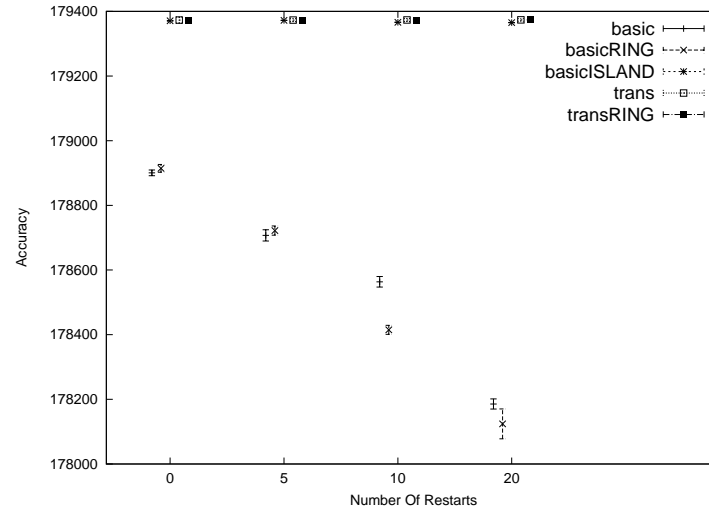


Figure B.124: Comparison of Best Results Between Algorithm Variations on Problem Instance acin7

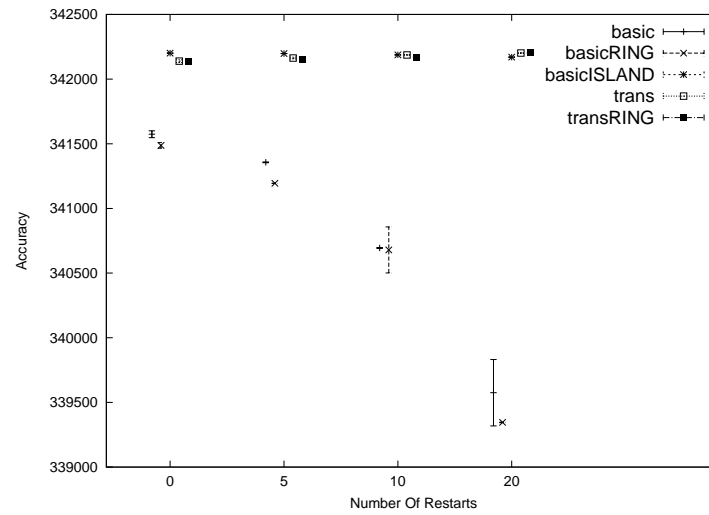


Figure B.125: Comparison of Best Results Between Algorithm Variations on Problem Instance acin9

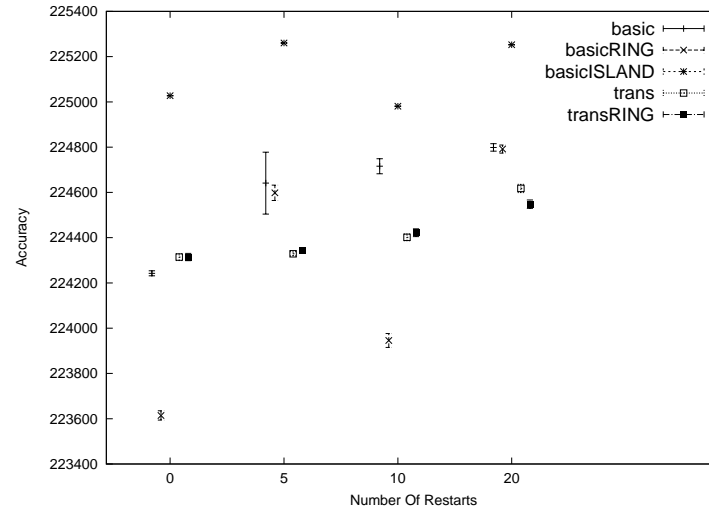


Figure B.126: Comparison of Best Results Between Algorithm Variations on Problem Instance bx842596_4

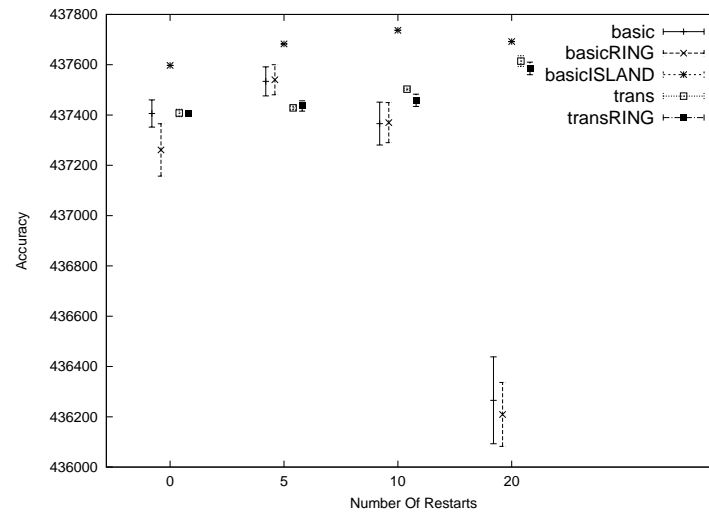


Figure B.127: Comparison of Best Results Between Algorithm Variations on Problem Instance bx842596_7

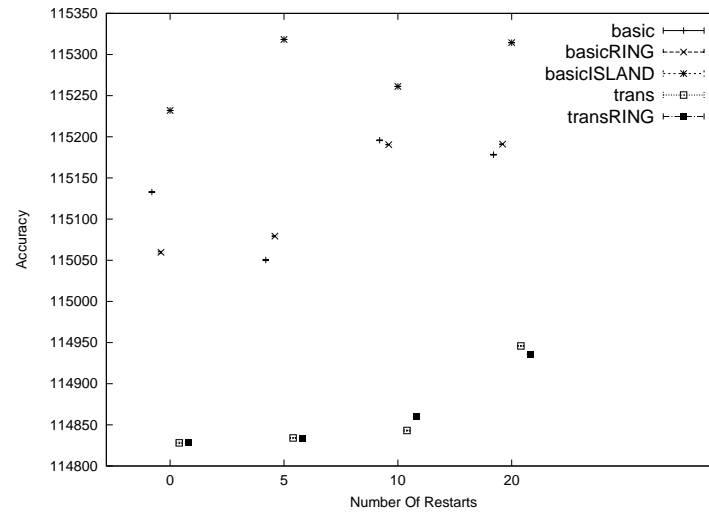


Figure B.128: Comparison of Best Results Between Algorithm Variations on Problem Instance j02459_7

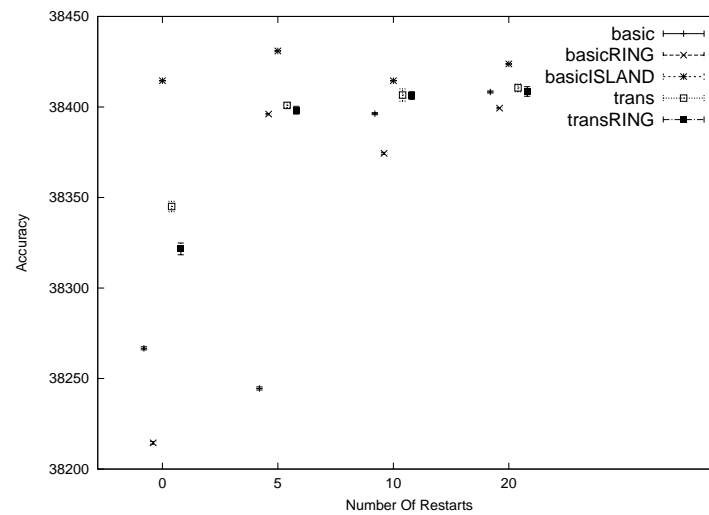


Figure B.129: Comparison of Best Results Between Algorithm Variations on Problem Instance m15421_5

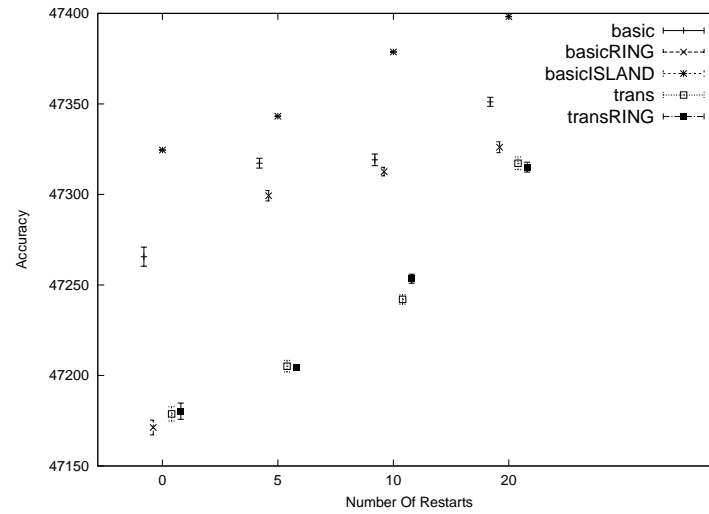


Figure B.130: Comparison of Best Results Between Algorithm Variations on Problem Instance m15421_6

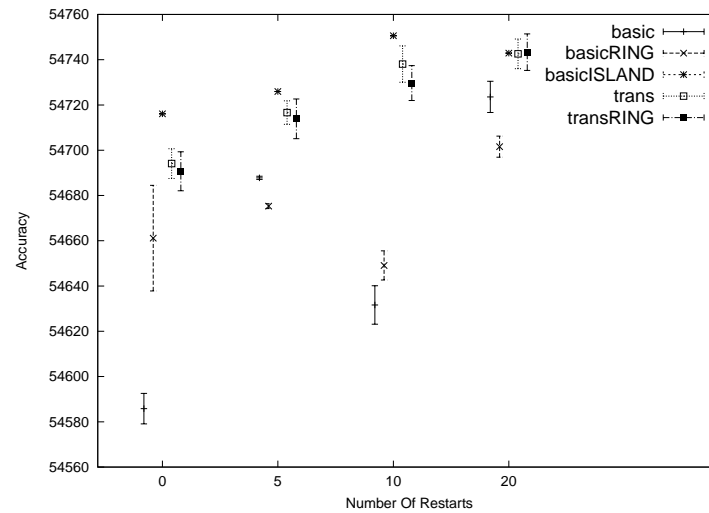


Figure B.131: Comparison of Best Results Between Algorithm Variations on Problem Instance m15421_7

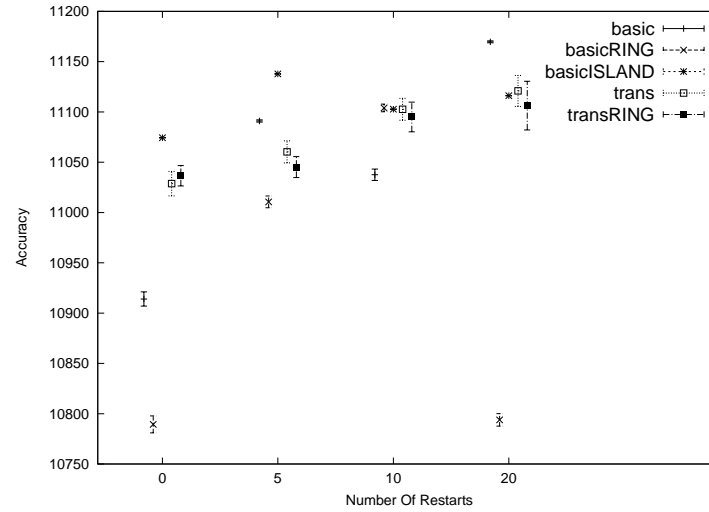


Figure B.132: Comparison of Best Results Between Algorithm Variations on Problem Instance x60189_4

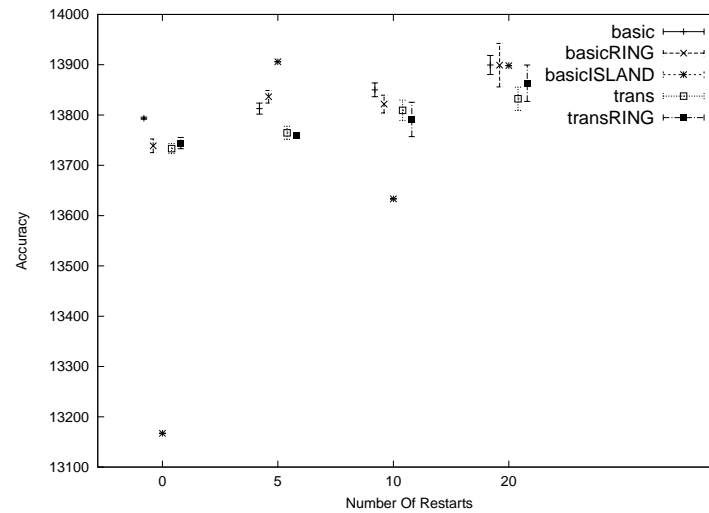


Figure B.133: Comparison of Best Results Between Algorithm Variations on Problem Instance x60189_5

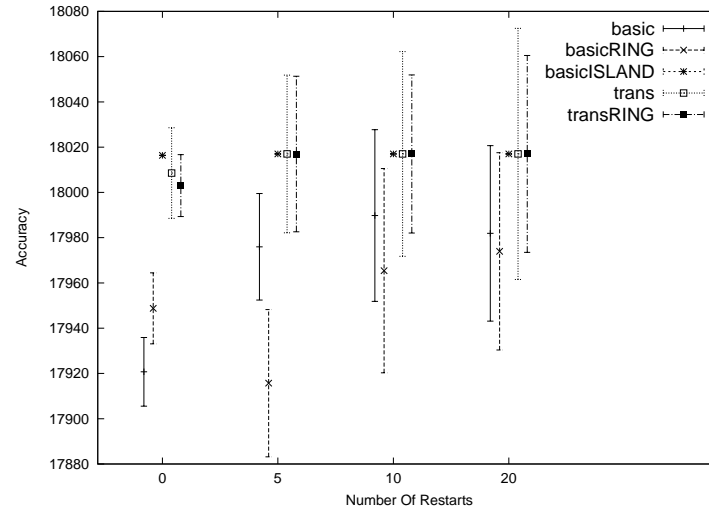


Figure B.134: Comparison of Best Results Between Algorithm Variations on Problem Instance x60189_6

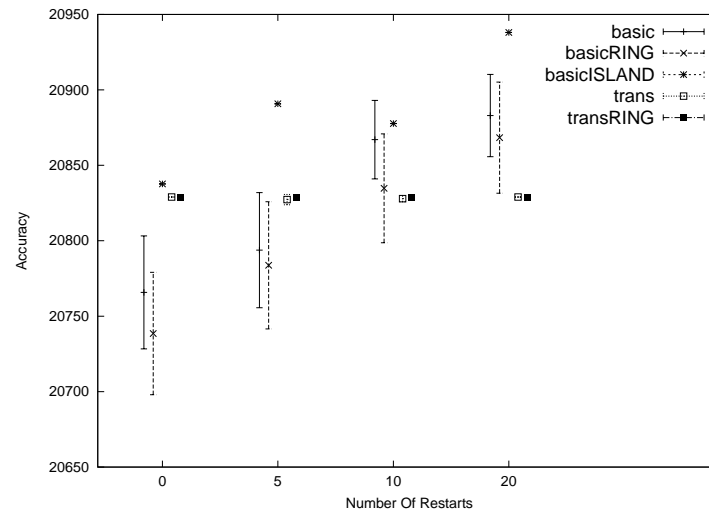


Figure B.135: Comparison of Best Results Between Algorithm Variations on Problem Instance x60189_7

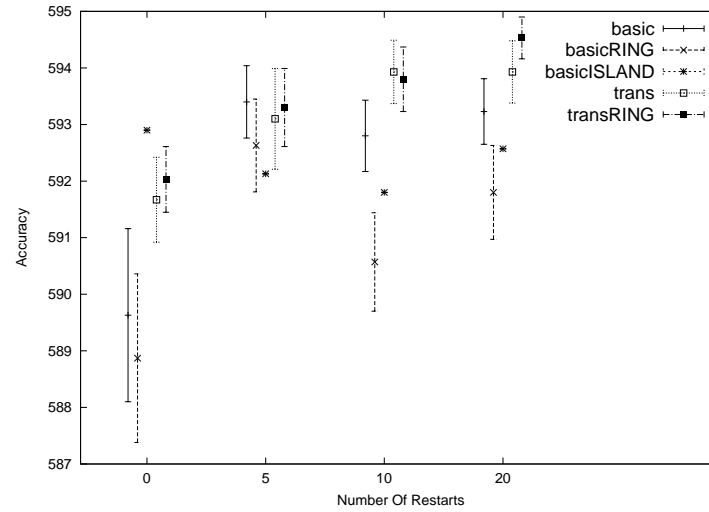


Figure B.136: Comparison of Best Results Between Algorithm Variations on Problem Instance f25_305

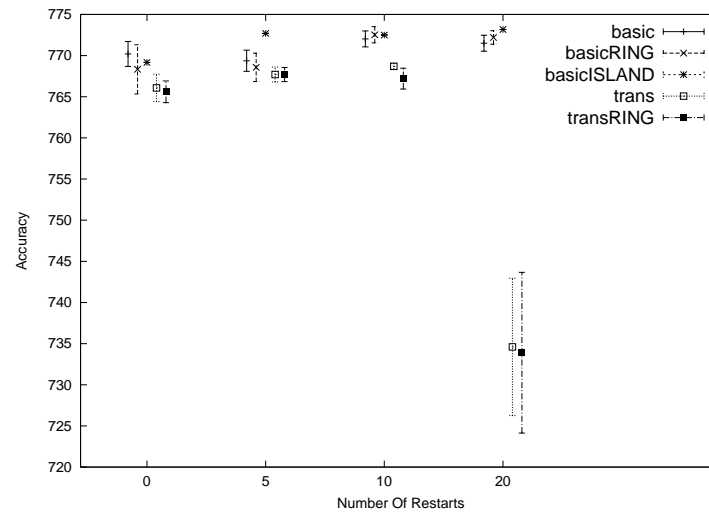


Figure B.137: Comparison of Best Results Between Algorithm Variations on Problem Instance f25_400

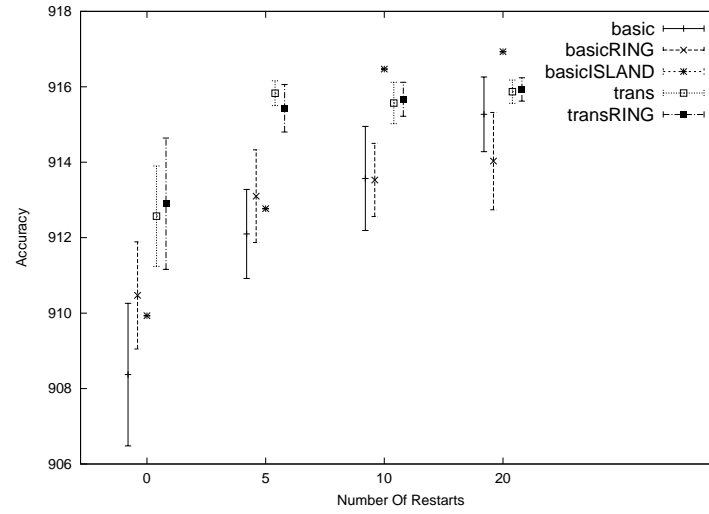


Figure B.138: Comparison of Best Results Between Algorithm Variations on Problem Instance f25_500

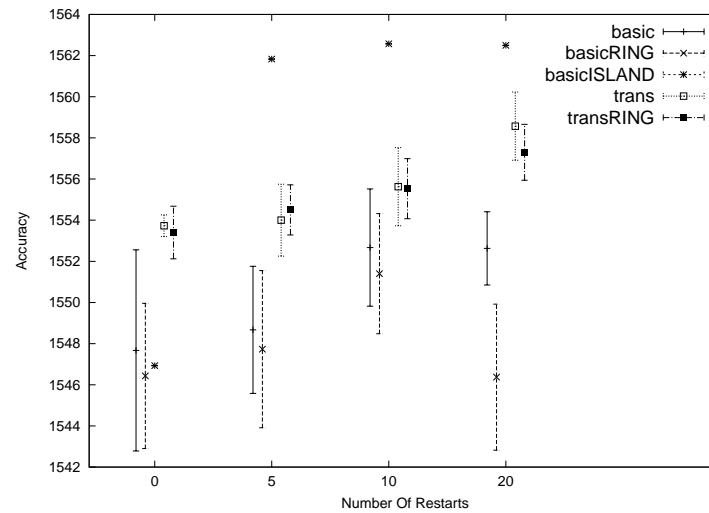


Figure B.139: Comparison of Best Results Between Algorithm Variations on Problem Instance f50_315

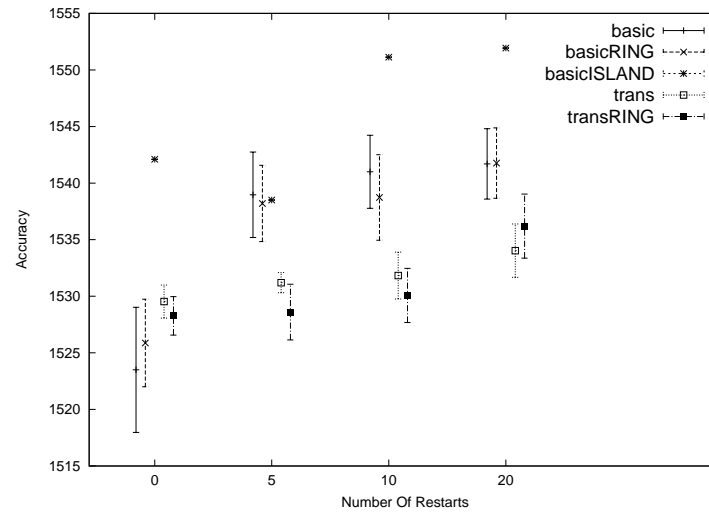


Figure B.140: Comparison of Best Results Between Algorithm Variations on Problem Instance f50_412

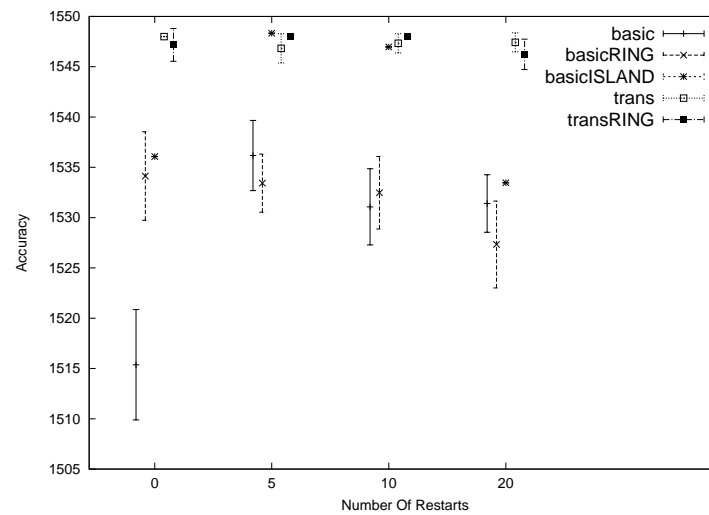


Figure B.141: Comparison of Best Results Between Algorithm Variations on Problem Instance f50_498

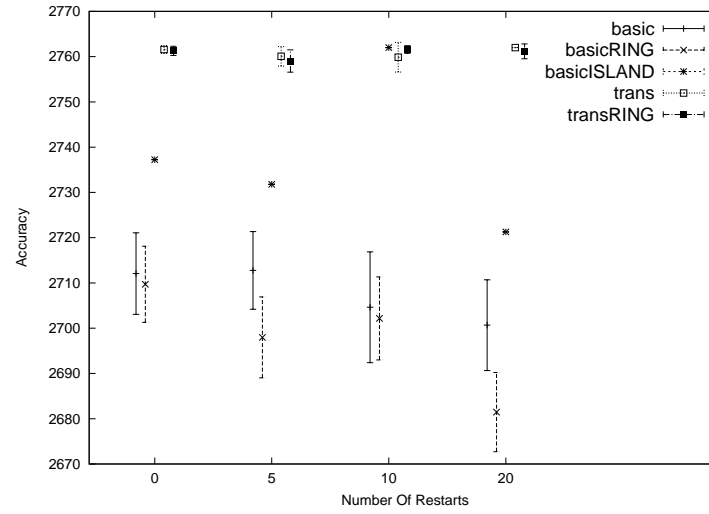


Figure B.142: Comparison of Best Results Between Algorithm Variations on Problem Instance f100_307

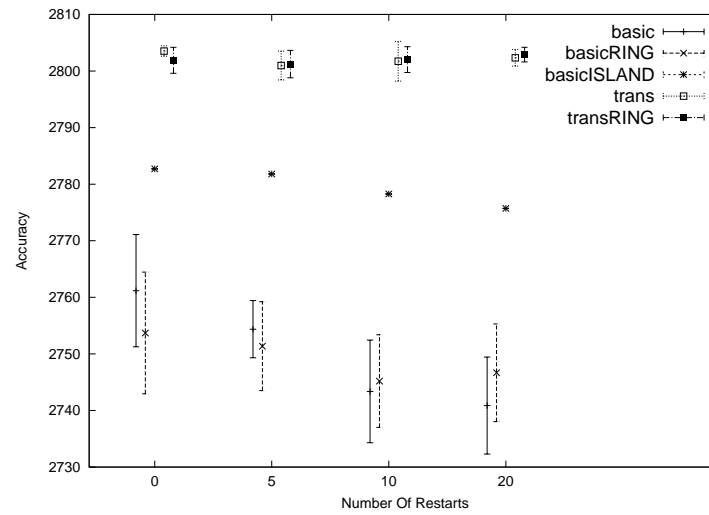


Figure B.143: Comparison of Best Results Between Algorithm Variations on Problem Instance f100_415

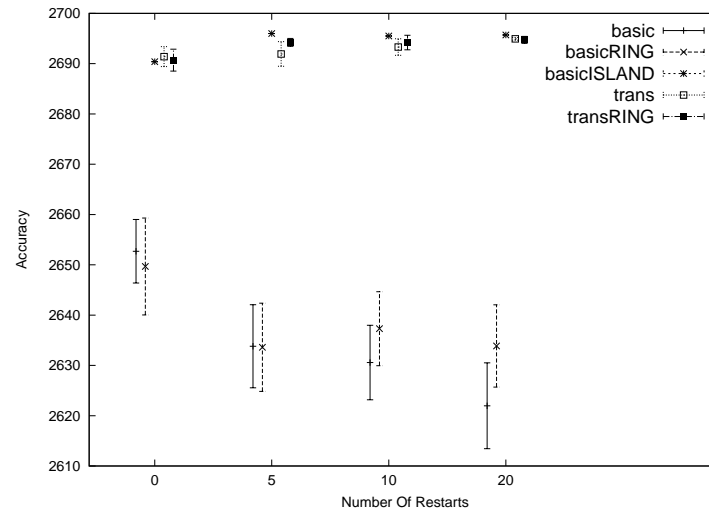


Figure B.144: Comparison of Best Results Between Algorithm Variations on Problem Instance f100_512

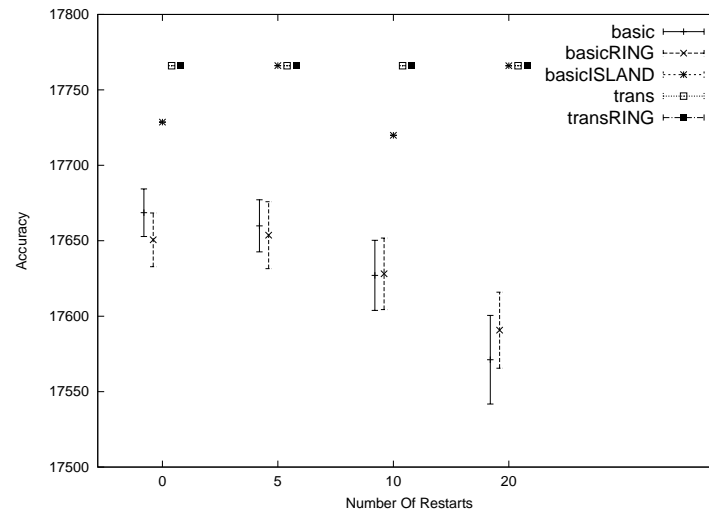


Figure B.145: Comparison of Best Results Between Algorithm Variations on Problem Instance f508_354

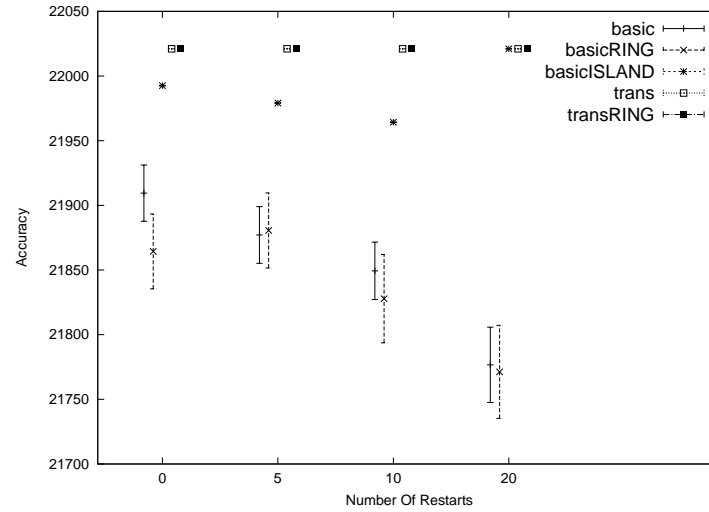


Figure B.146: Comparison of Best Results Between Algorithm Variations on Problem Instance f635_350

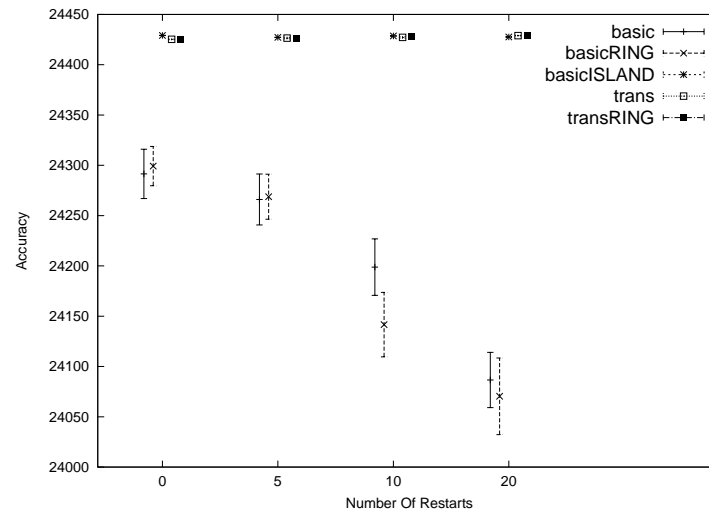


Figure B.147: Comparison of Best Results Between Algorithm Variations on Problem Instance f737_355

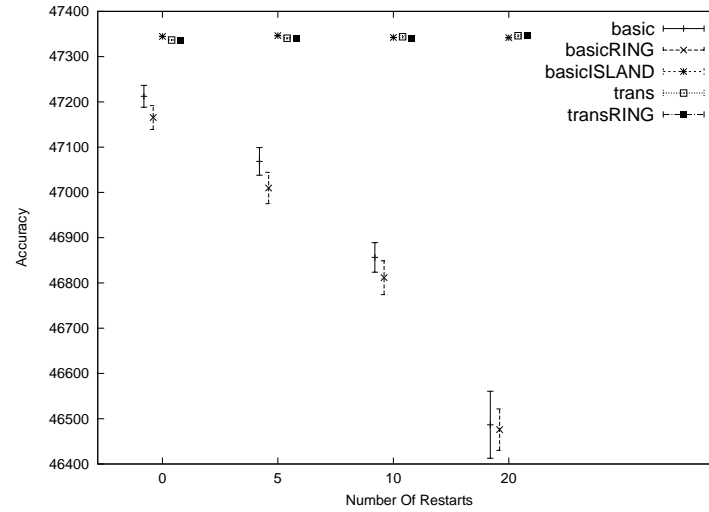


Figure B.148: Comparison of Best Results Between Algorithm Variations on Problem Instance f1343_354

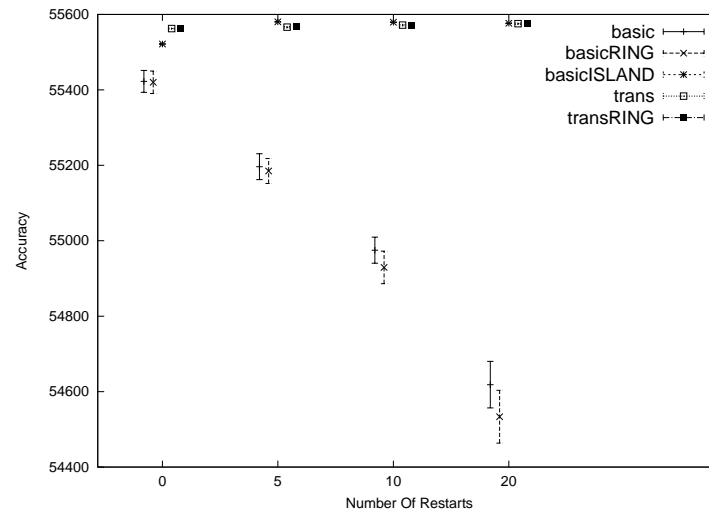


Figure B.149: Comparison of Best Results Between Algorithm Variations on Problem Instance f1577_354

Results With Post Optimization

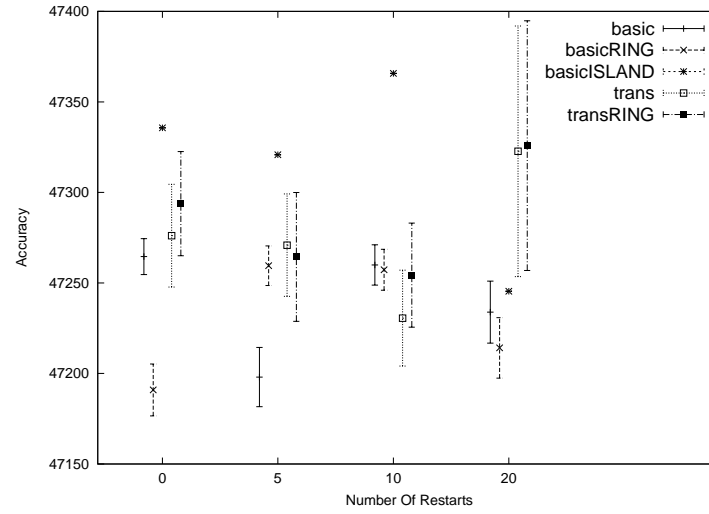


Figure B.150: Comparison of Best Results Between Algorithm Variations on Problem Instance acin1

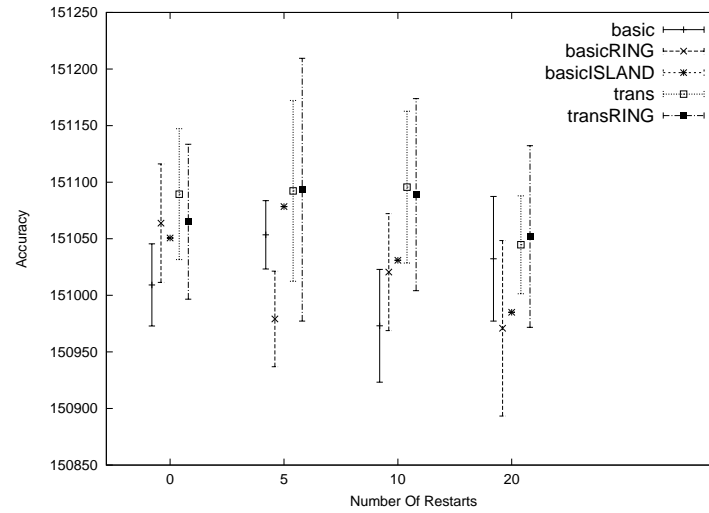


Figure B.151: Comparison of Best Results Between Algorithm Variations on Problem Instance acin2

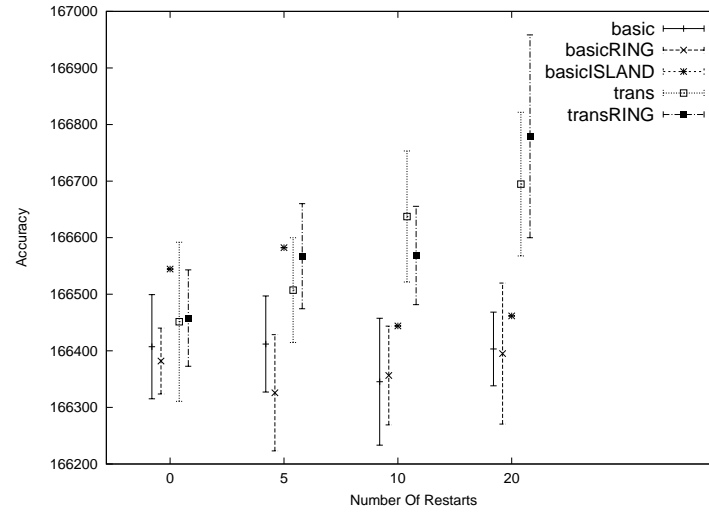


Figure B.152: Comparison of Best Results Between Algorithm Variations on Problem Instance acin3

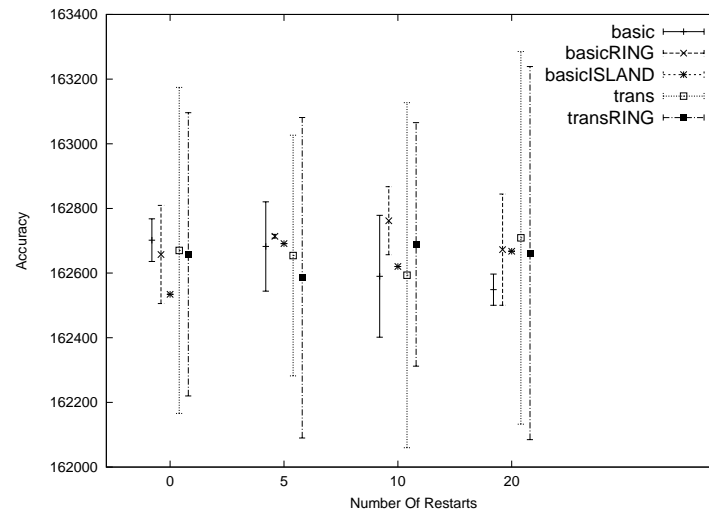


Figure B.153: Comparison of Best Results Between Algorithm Variations on Problem Instance acin5

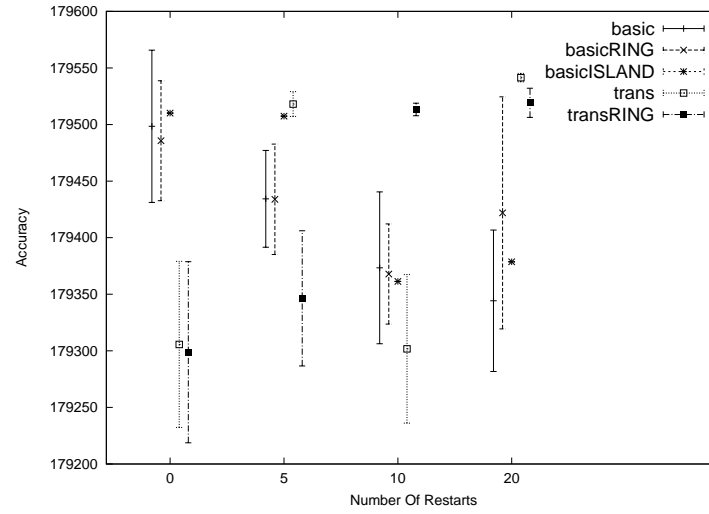


Figure B.154: Comparison of Best Results Between Algorithm Variations on Problem Instance acin7

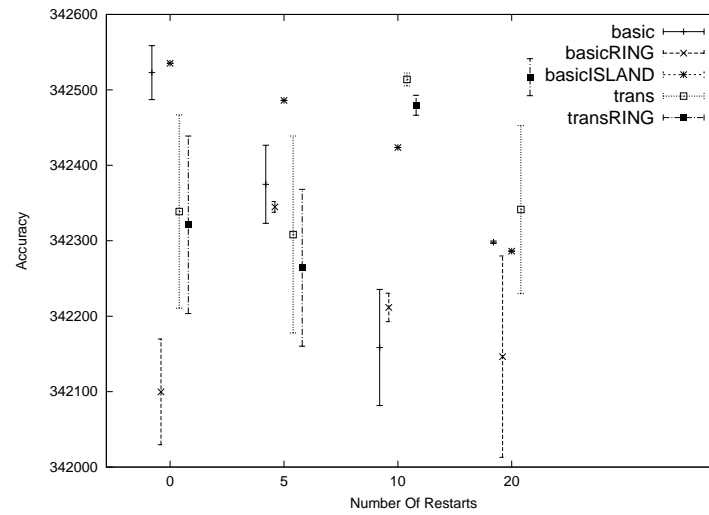


Figure B.155: Comparison of Best Results Between Algorithm Variations on Problem Instance acin9

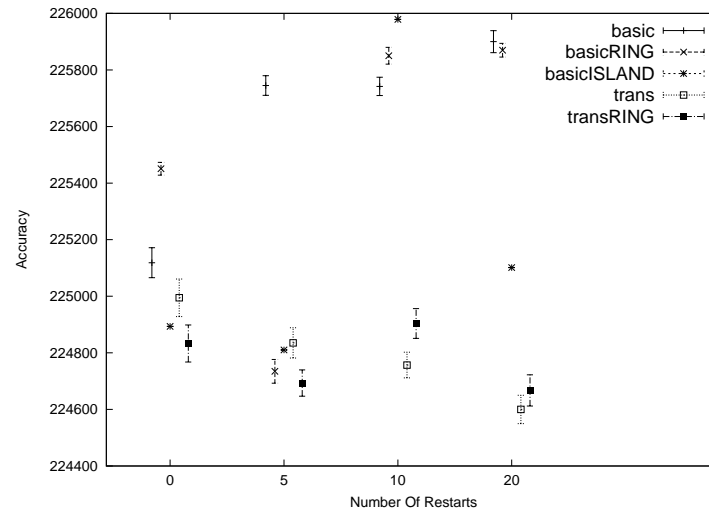


Figure B.156: Comparison of Best Results Between Algorithm Variations on Problem Instance bx842596_4

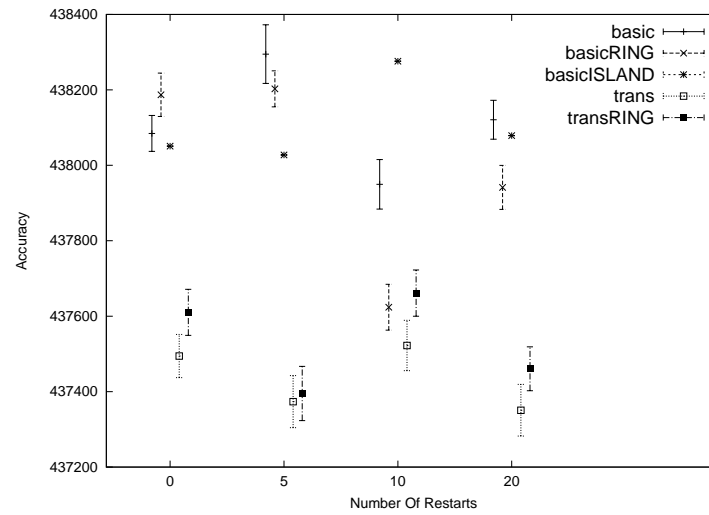


Figure B.157: Comparison of Best Results Between Algorithm Variations on Problem Instance bx842596_7

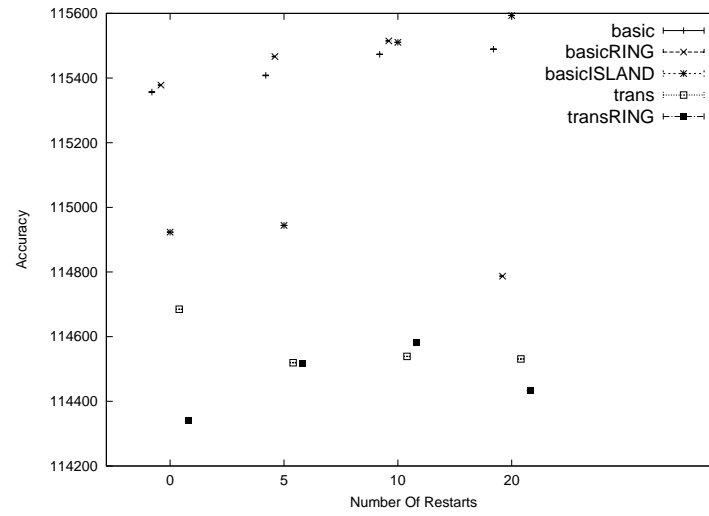


Figure B.158: Comparison of Best Results Between Algorithm Variations on Problem Instance j02459_7

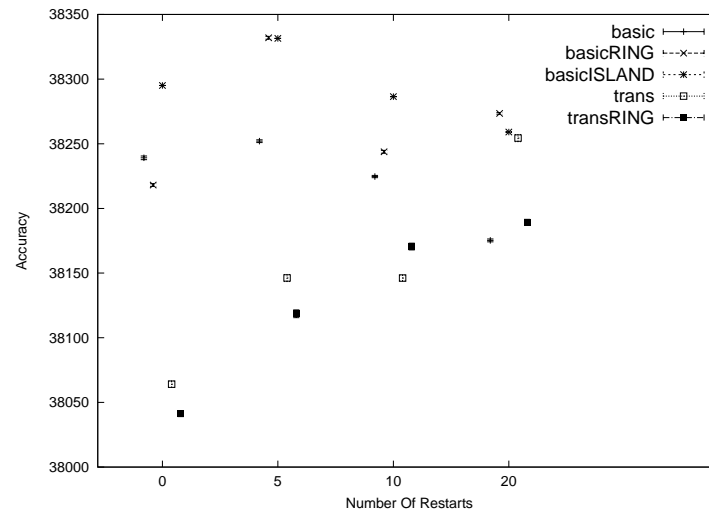


Figure B.159: Comparison of Best Results Between Algorithm Variations on Problem Instance m15421_5

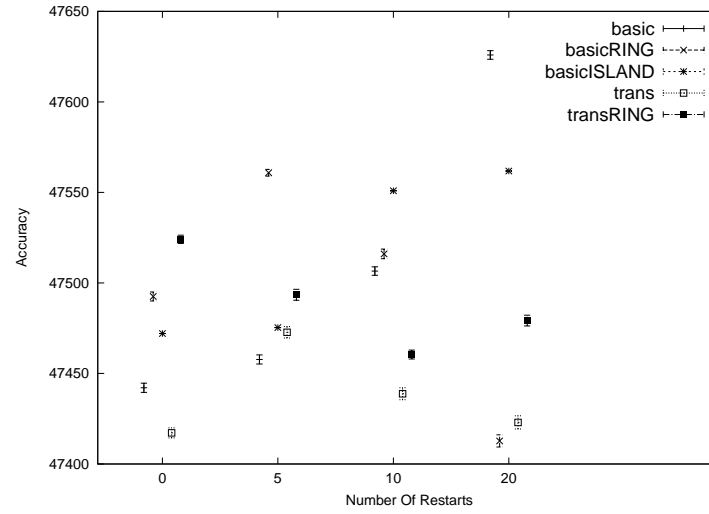


Figure B.160: Comparison of Best Results Between Algorithm Variations on Problem Instance m15421_6

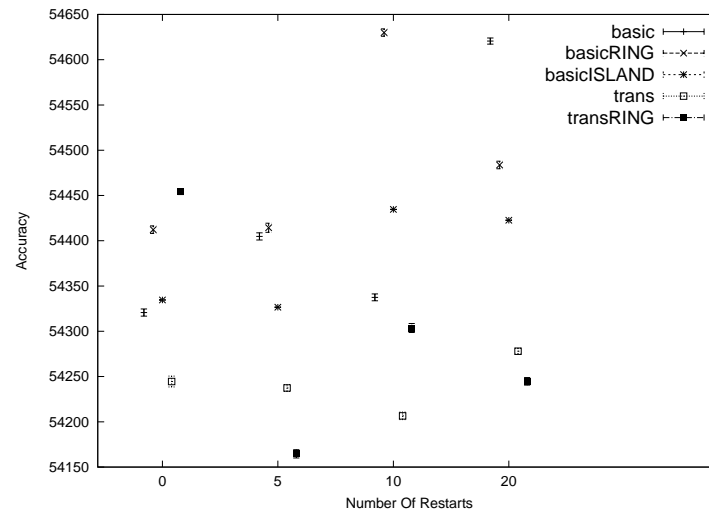


Figure B.161: Comparison of Best Results Between Algorithm Variations on Problem Instance m15421_7

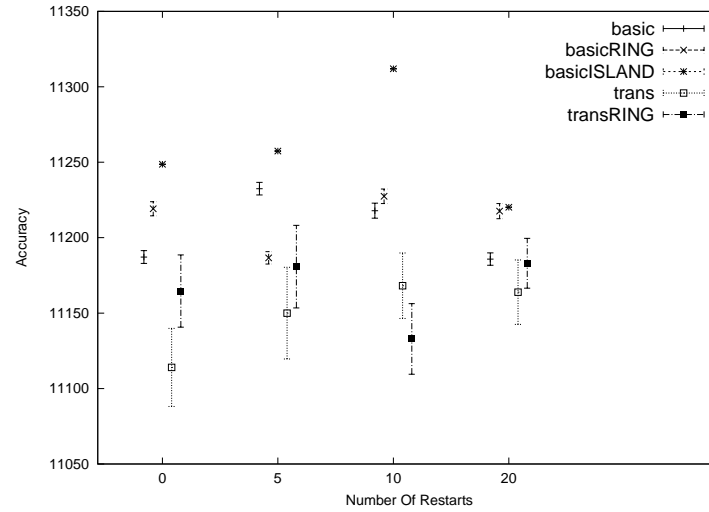


Figure B.162: Comparison of Best Results Between Algorithm Variations on Problem Instance x60189_4

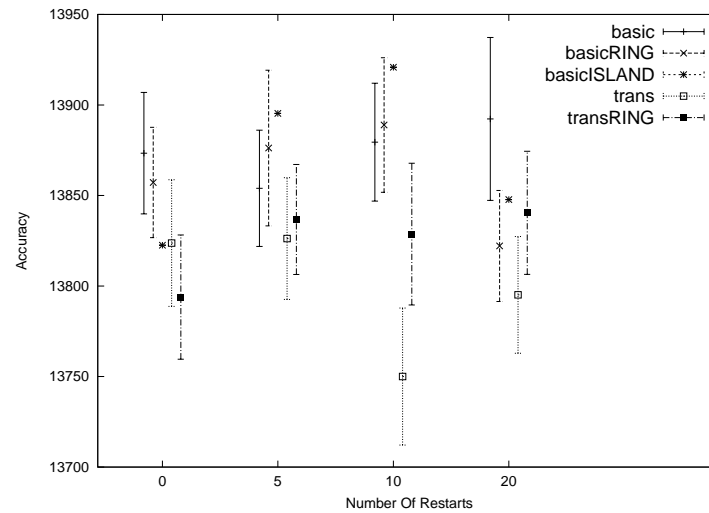


Figure B.163: Comparison of Best Results Between Algorithm Variations on Problem Instance x60189_5

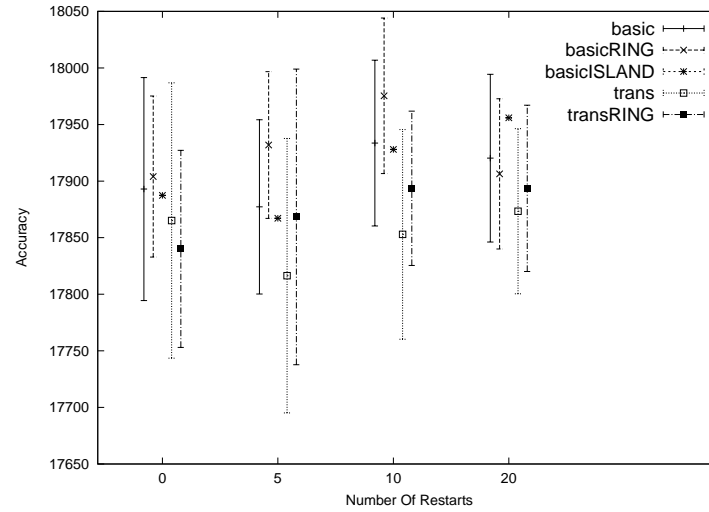


Figure B.164: Comparison of Best Results Between Algorithm Variations on Problem Instance x60189_6

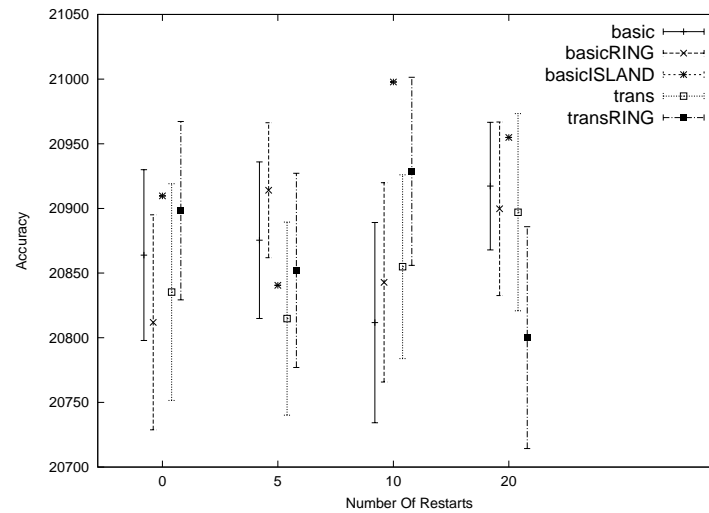


Figure B.165: Comparison of Best Results Between Algorithm Variations on Problem Instance x60189_7

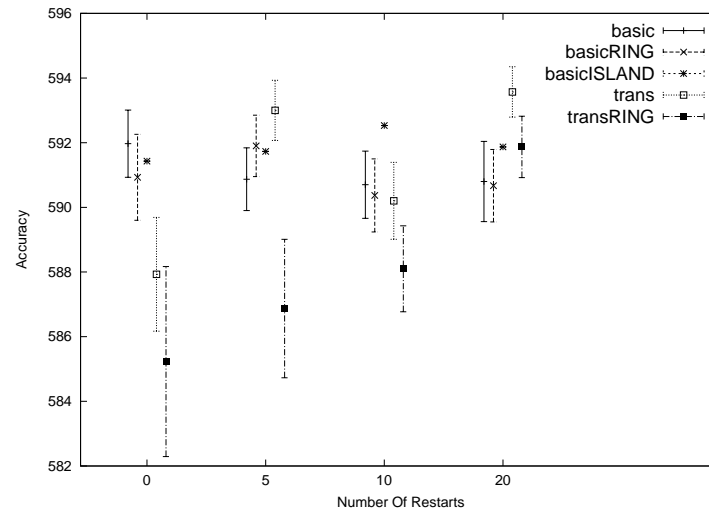


Figure B.166: Comparison of Best Results Between Algorithm Variations on Problem Instance f25_305

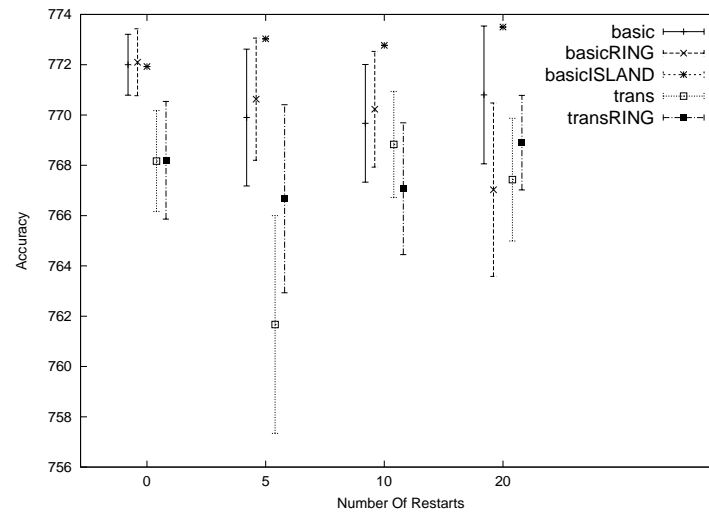


Figure B.167: Comparison of Best Results Between Algorithm Variations on Problem Instance f25_400

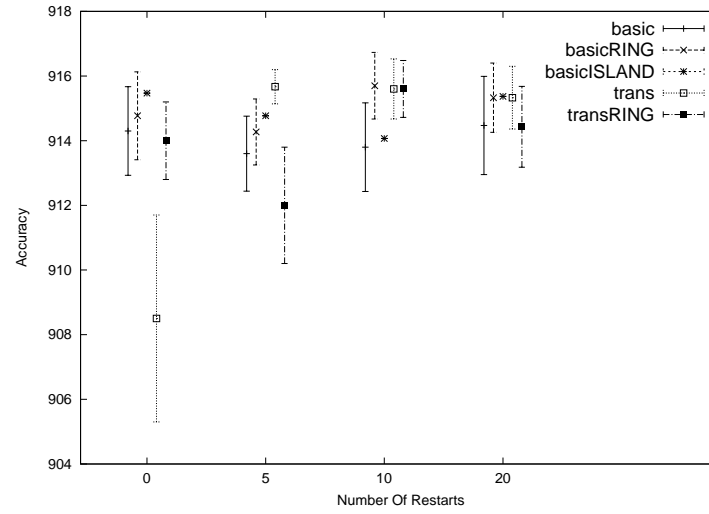


Figure B.168: Comparison of Best Results Between Algorithm Variations on Problem Instance f25_500

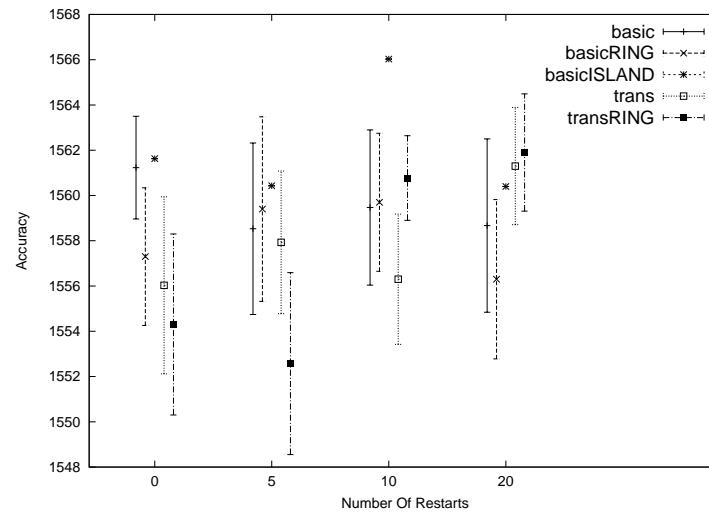


Figure B.169: Comparison of Best Results Between Algorithm Variations on Problem Instance f50_315

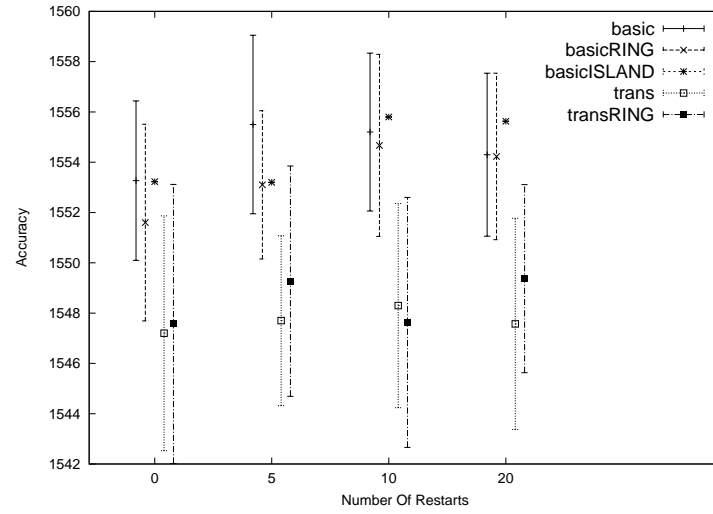


Figure B.170: Comparison of Best Results Between Algorithm Variations on Problem Instance f50_412

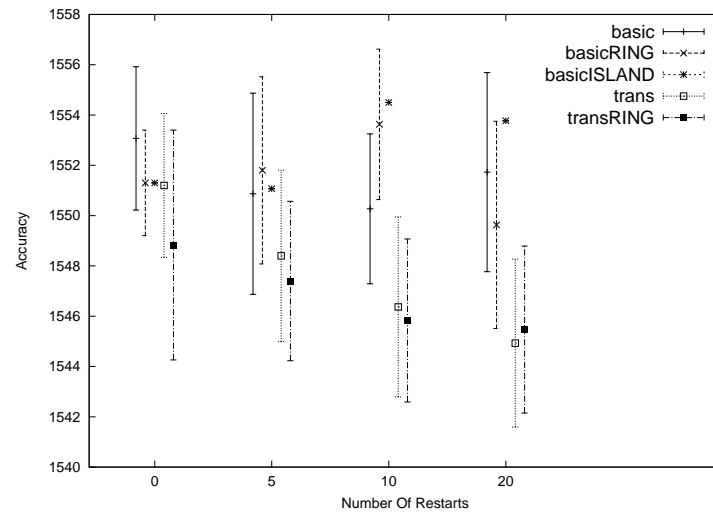


Figure B.171: Comparison of Best Results Between Algorithm Variations on Problem Instance f50_498

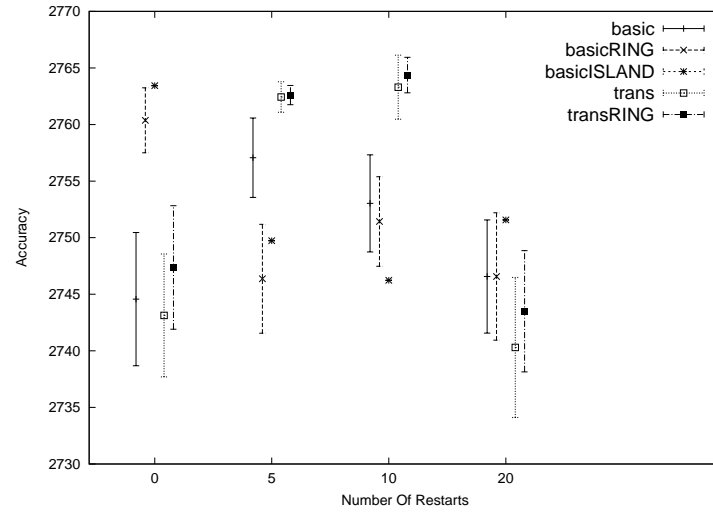


Figure B.172: Comparison of Best Results Between Algorithm Variations on Problem Instance f100_307

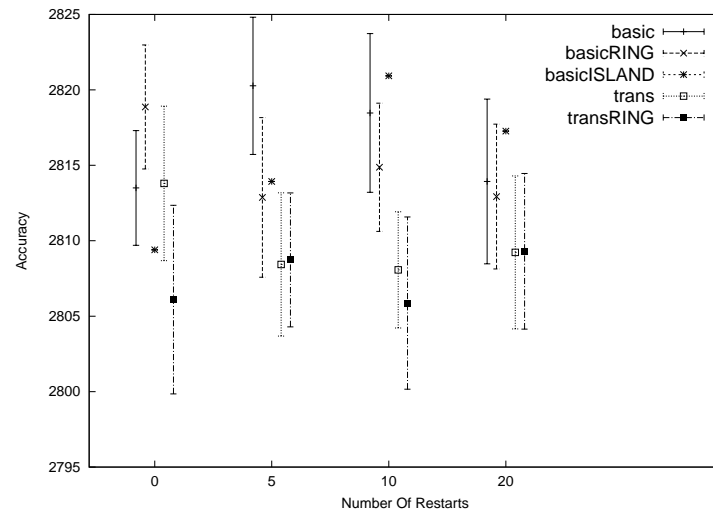


Figure B.173: Comparison of Best Results Between Algorithm Variations on Problem Instance f100_415

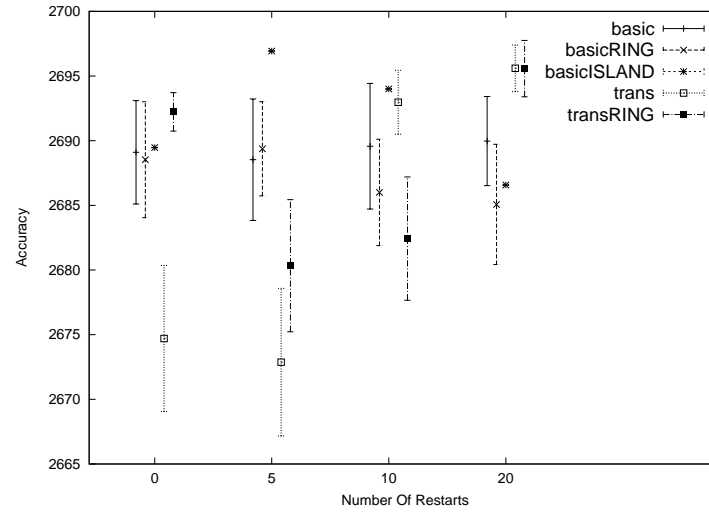


Figure B.174: Comparison of Best Results Between Algorithm Variations on Problem Instance f100_512

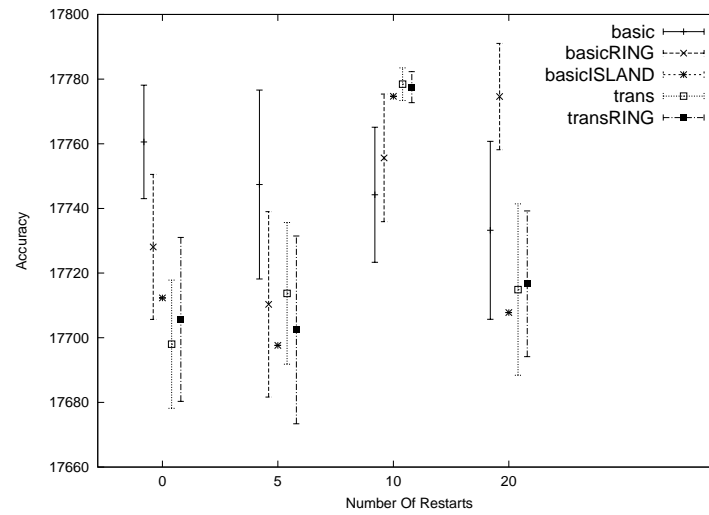


Figure B.175: Comparison of Best Results Between Algorithm Variations on Problem Instance f508_354

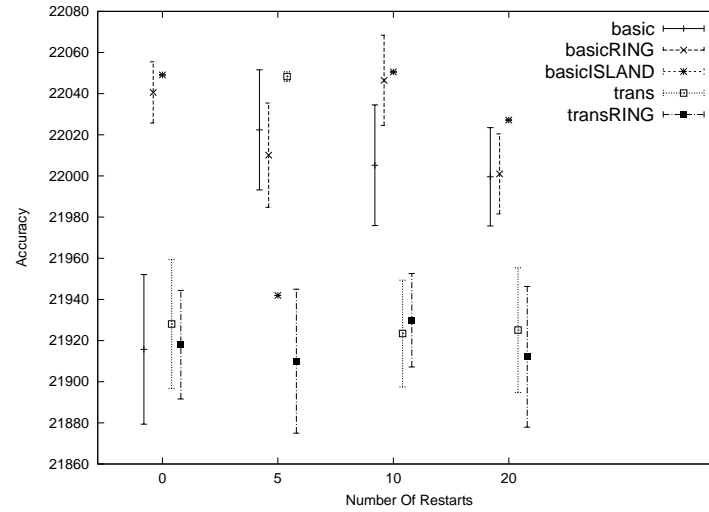


Figure B.176: Comparison of Best Results Between Algorithm Variations on Problem Instance f635_350

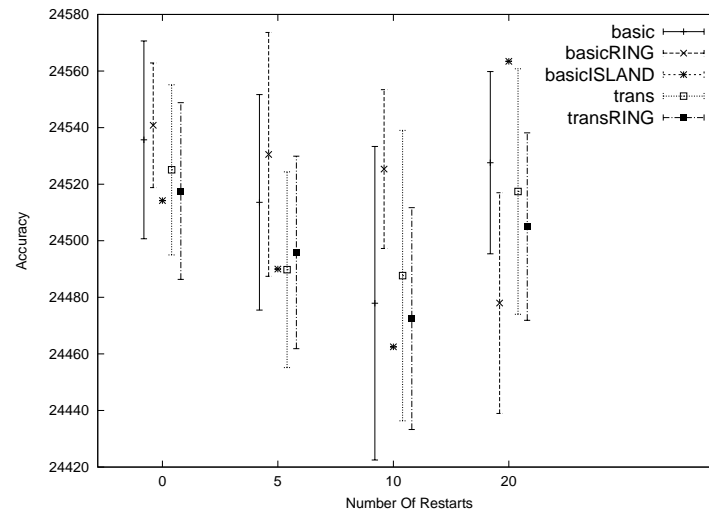


Figure B.177: Comparison of Best Results Between Algorithm Variations on Problem Instance f737_355

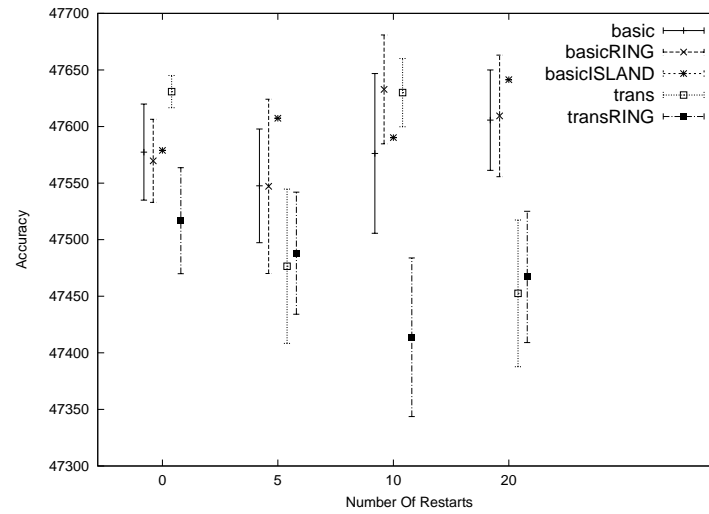


Figure B.178: Comparison of Best Results Between Algorithm Variations on Problem Instance f1343_354

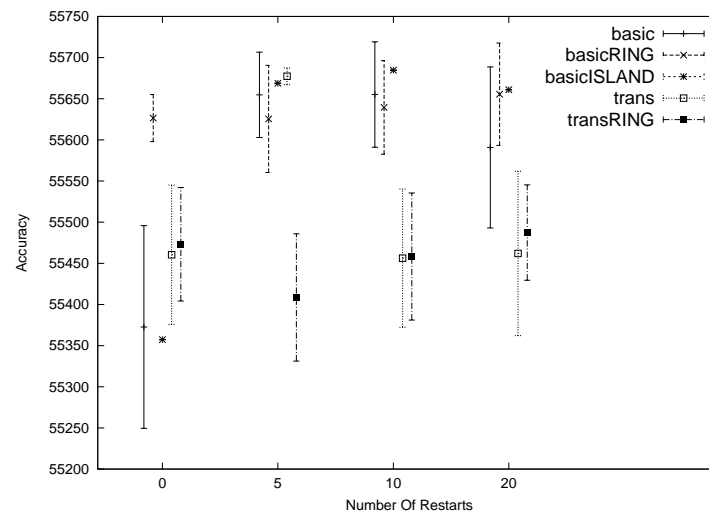


Figure B.179: Comparison of Best Results Between Algorithm Variations on Problem Instance f1577_354

Comparison Between No Post Optimization Results and Post Optimization Results

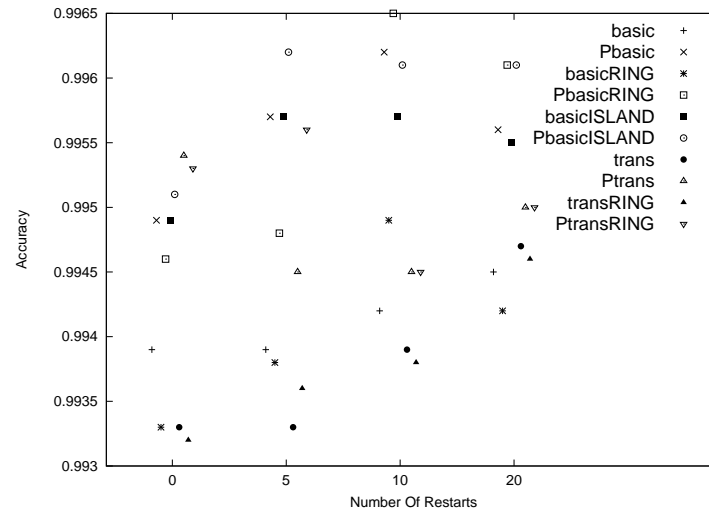


Figure B.180: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance acin1

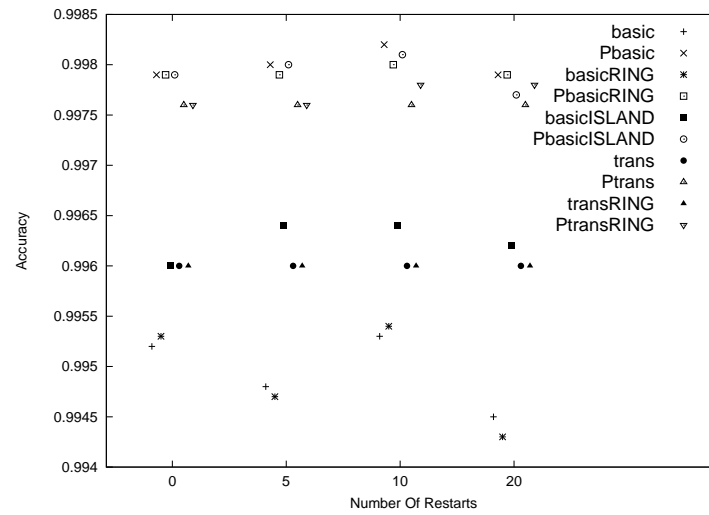


Figure B.181: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance acin2

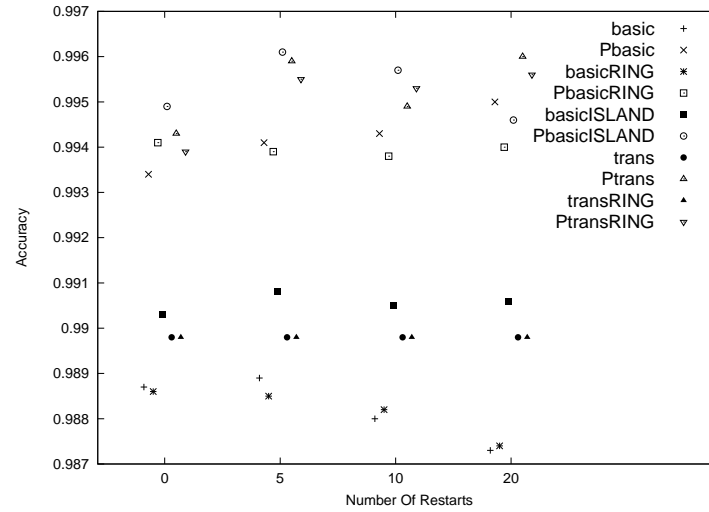


Figure B.182: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance acin3

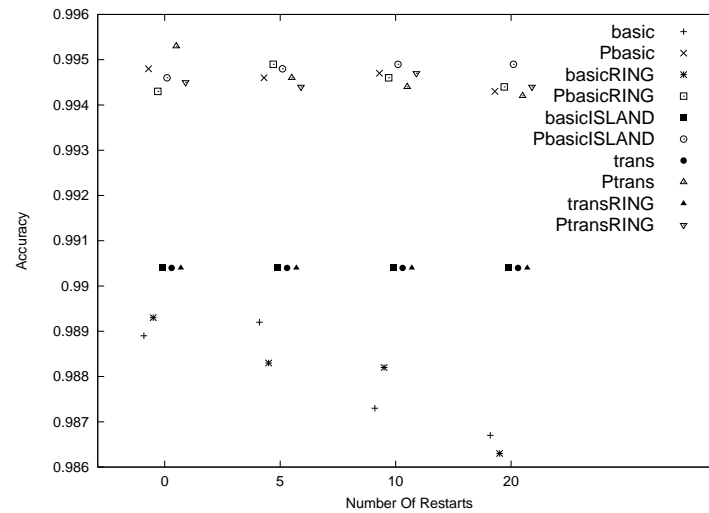


Figure B.183: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance acin5

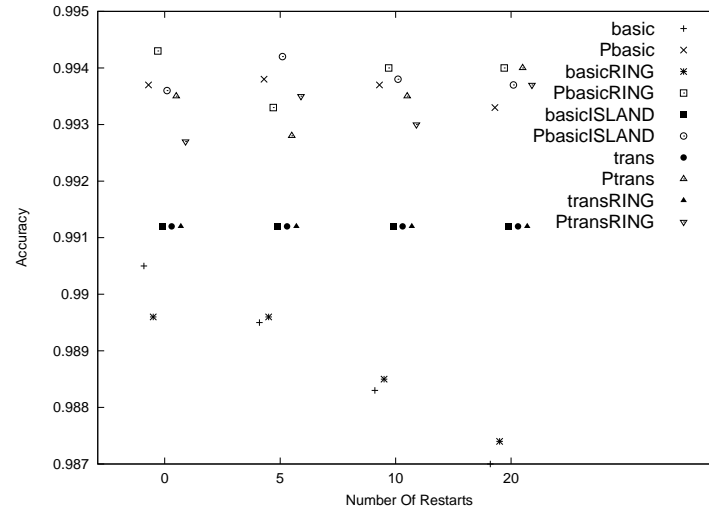


Figure B.184: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance acin7

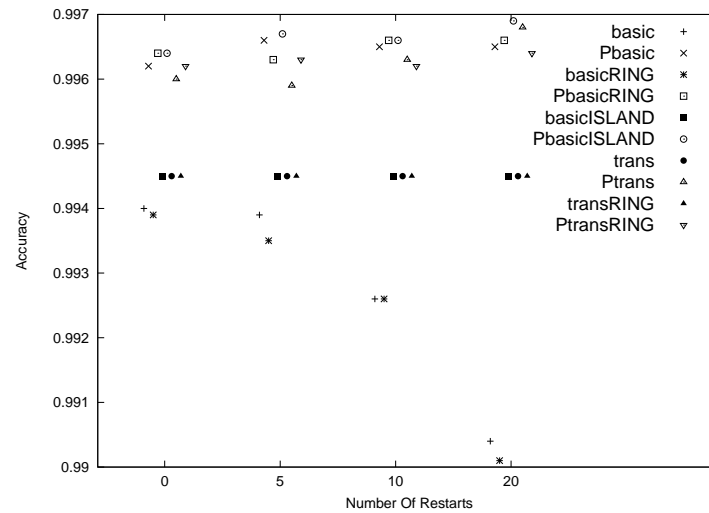


Figure B.185: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance acin9

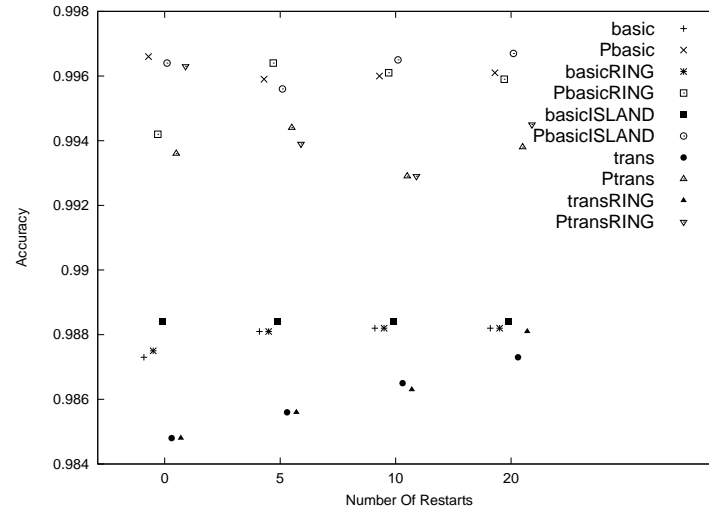


Figure B.186: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance bx842596_4

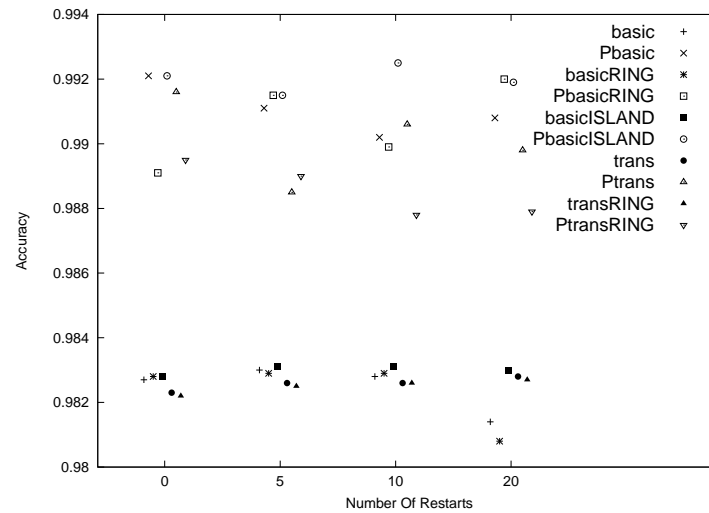


Figure B.187: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance bx842596_7

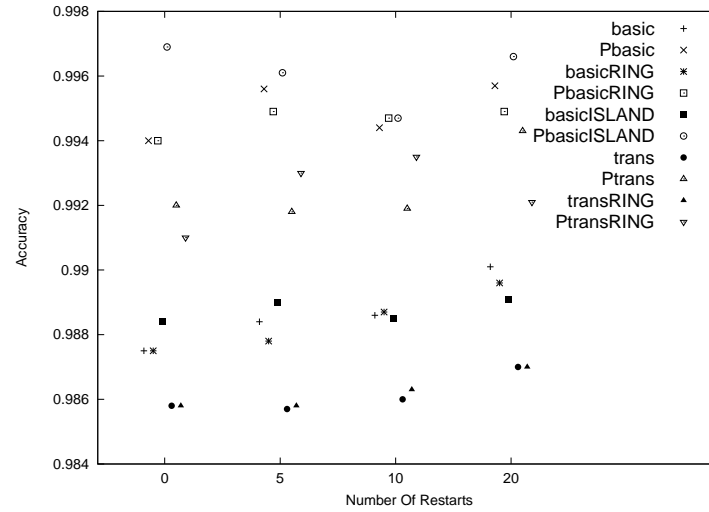


Figure B.188: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance j02459_7

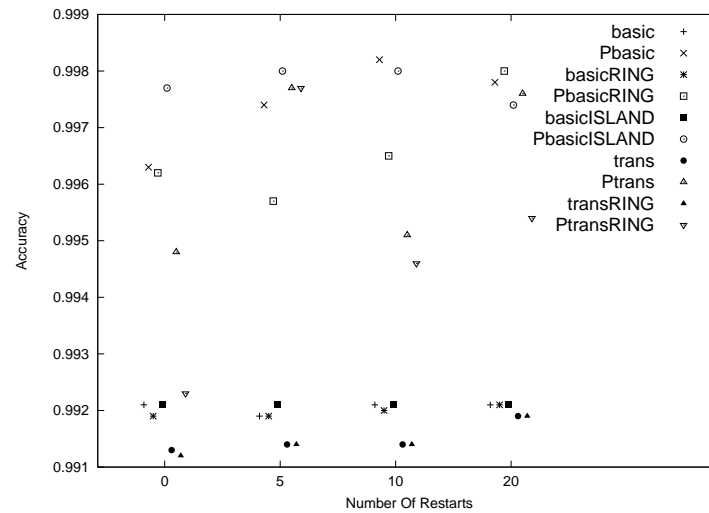


Figure B.189: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance m15421_5

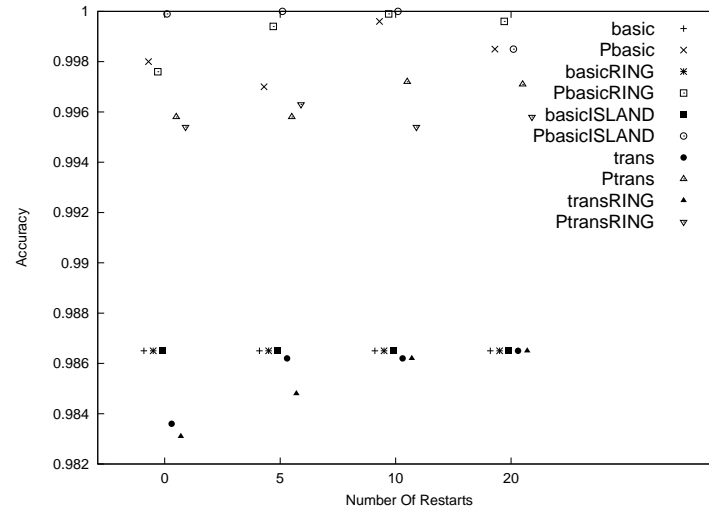


Figure B.190: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance m15421_6

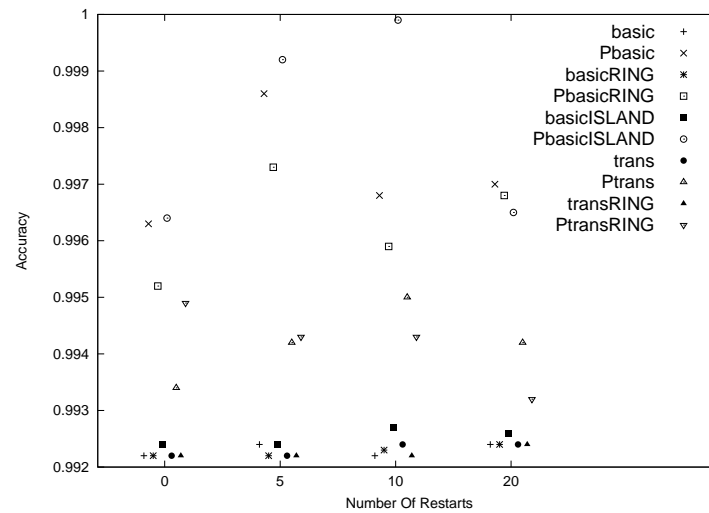


Figure B.191: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance m15421_7

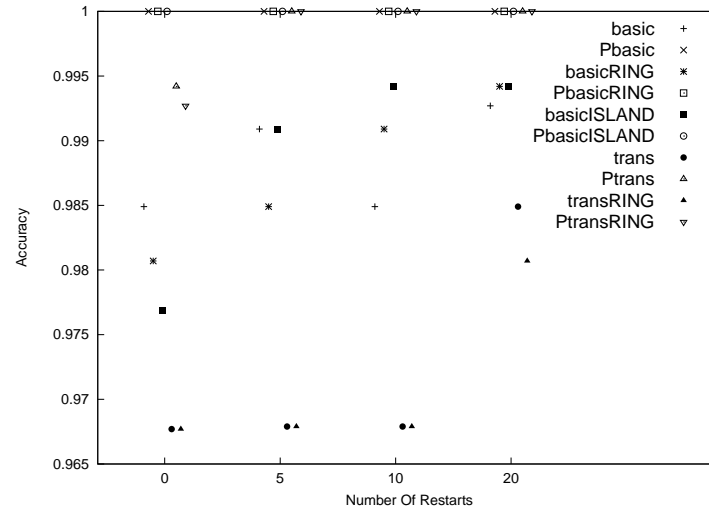


Figure B.192: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance x60189_4

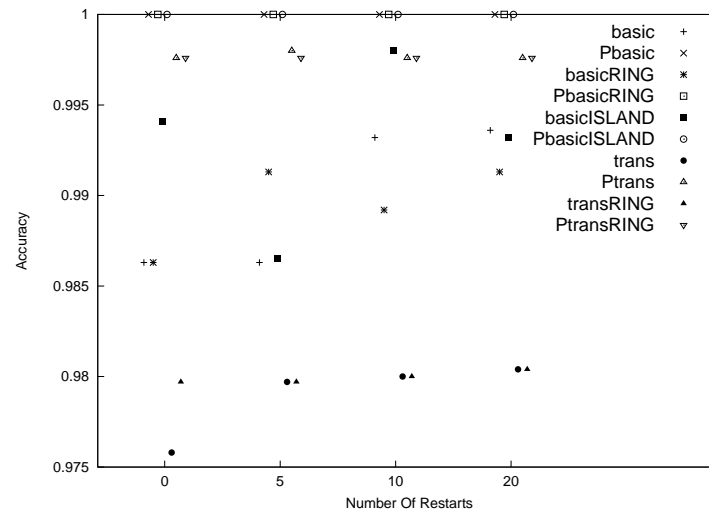


Figure B.193: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance x60189_5

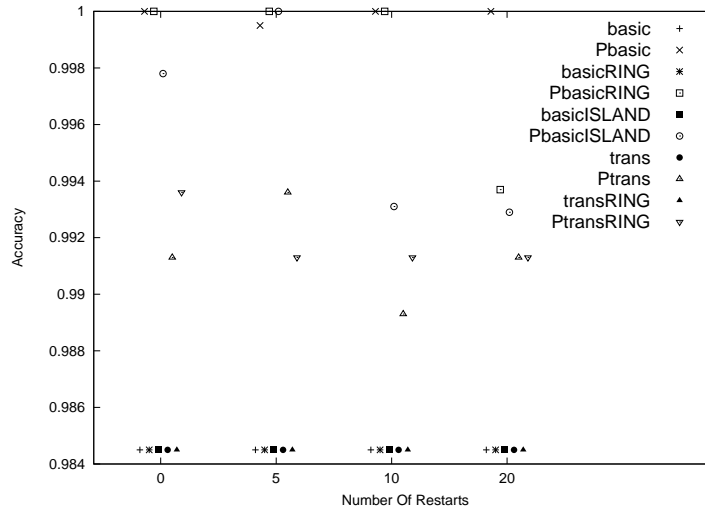


Figure B.194: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance x60189_6

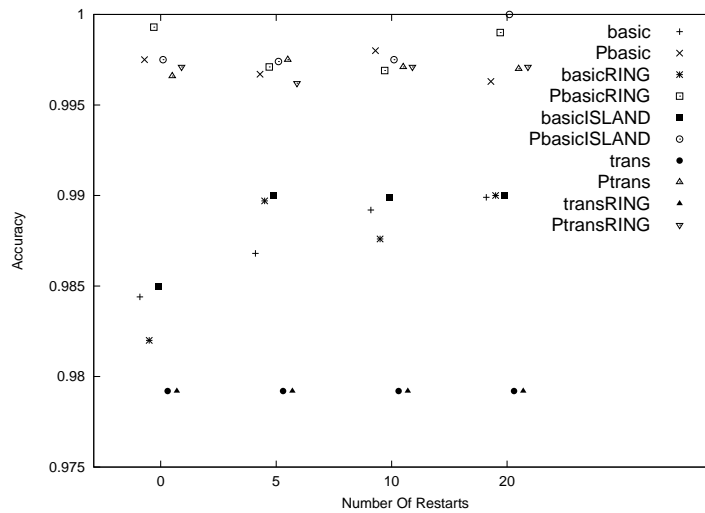


Figure B.195: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance x60189_7

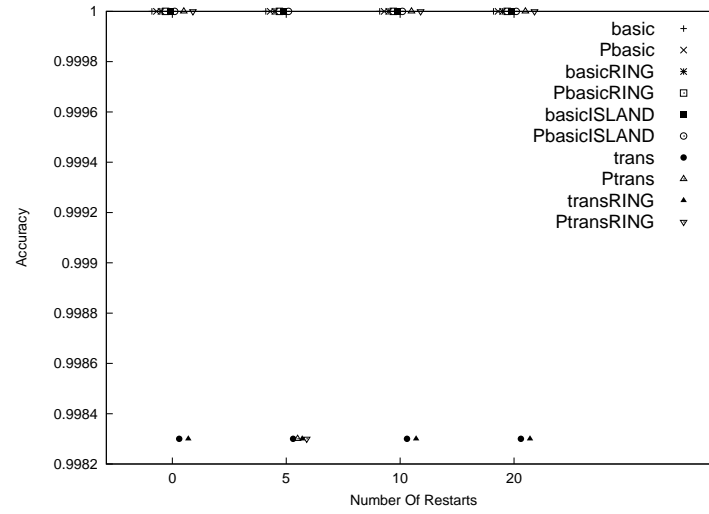


Figure B.196: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f25_305

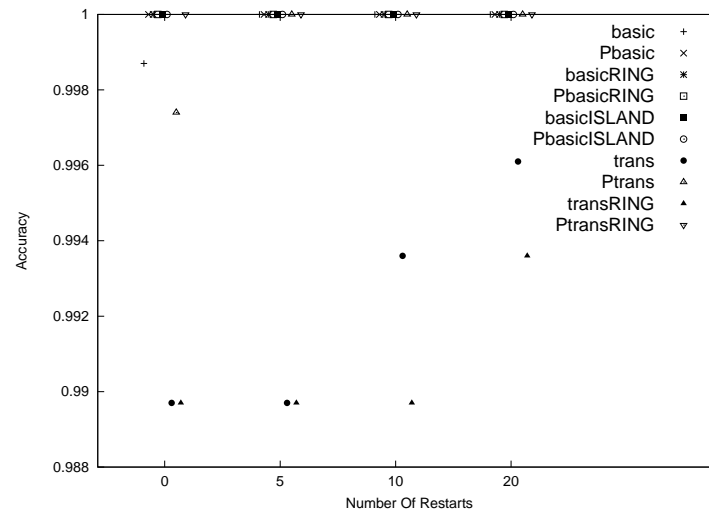


Figure B.197: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f25_400

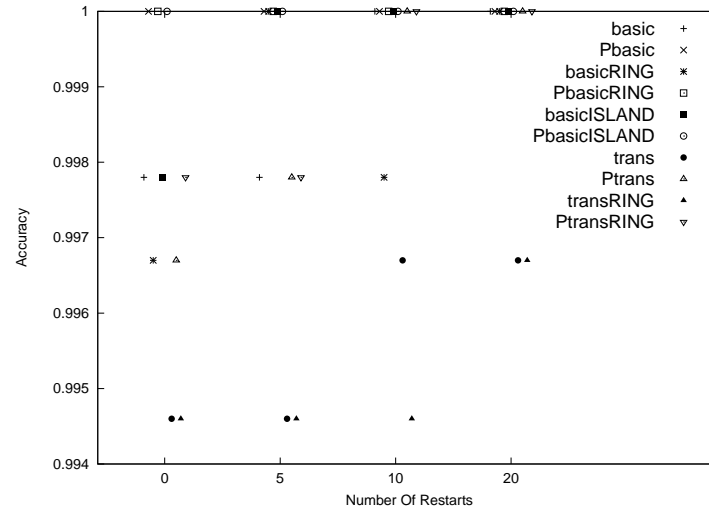


Figure B.198: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f25_500

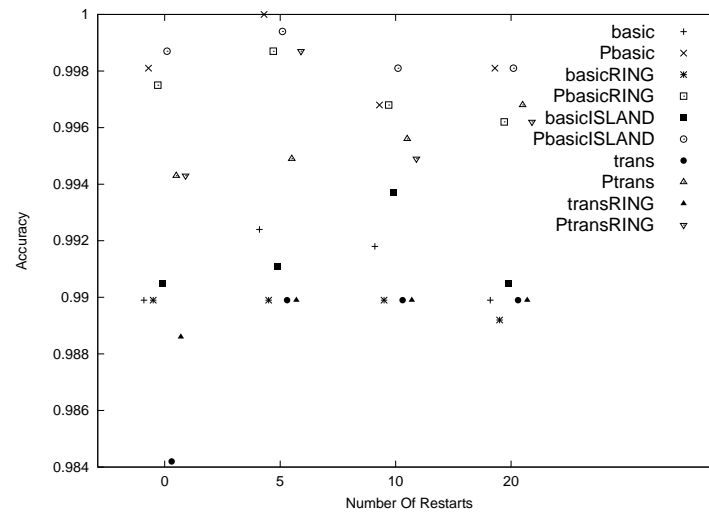


Figure B.199: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f50_315

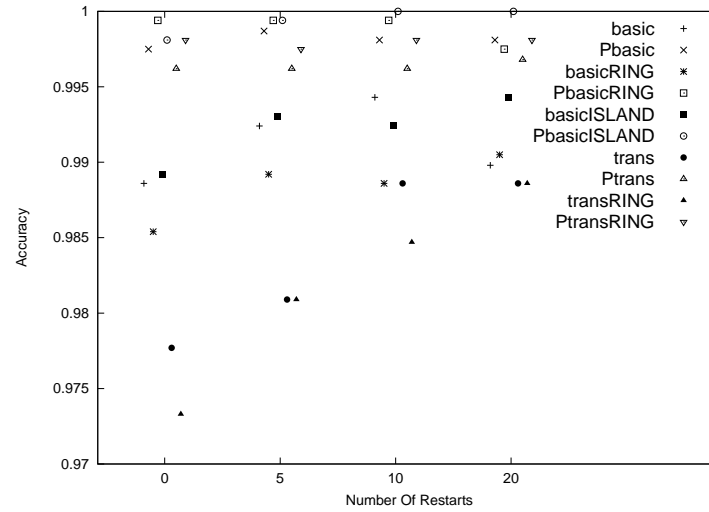


Figure B.200: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f50_412

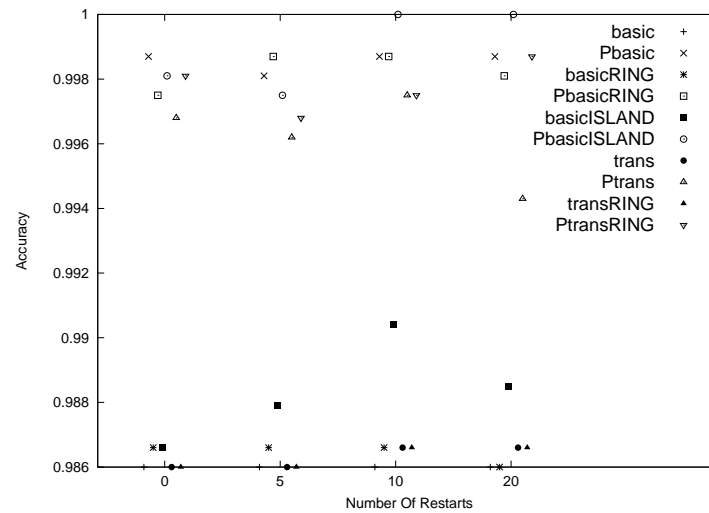


Figure B.201: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f50_498

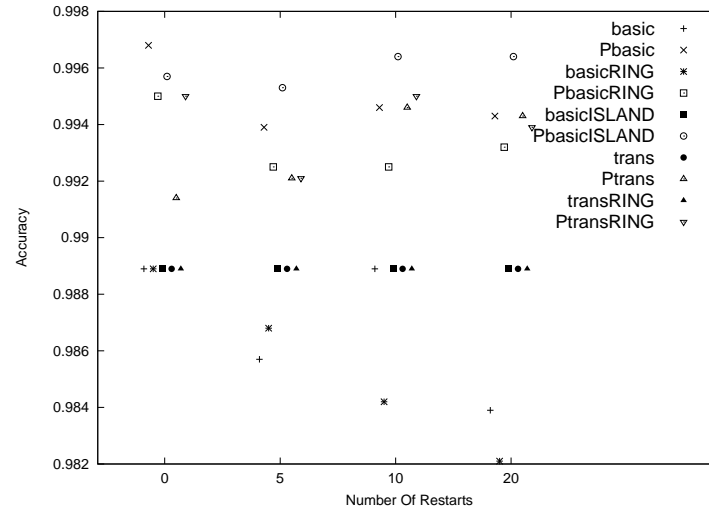


Figure B.202: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f100_307

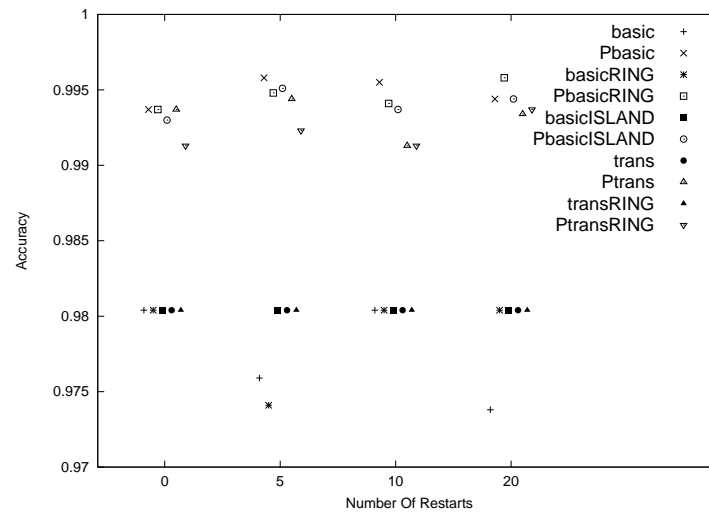


Figure B.203: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f100_415

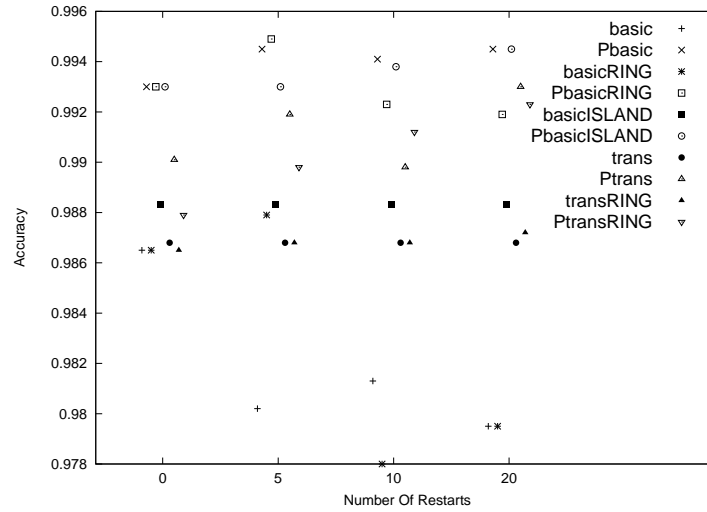


Figure B.204: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f100_512

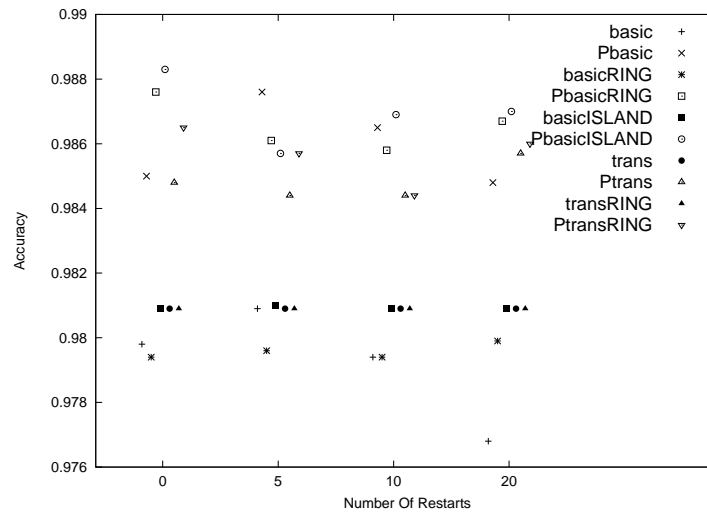


Figure B.205: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f508_354

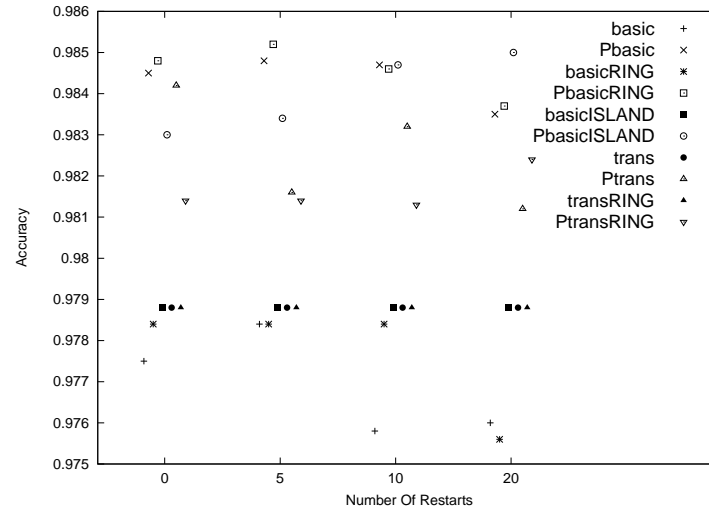


Figure B.206: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f635_350

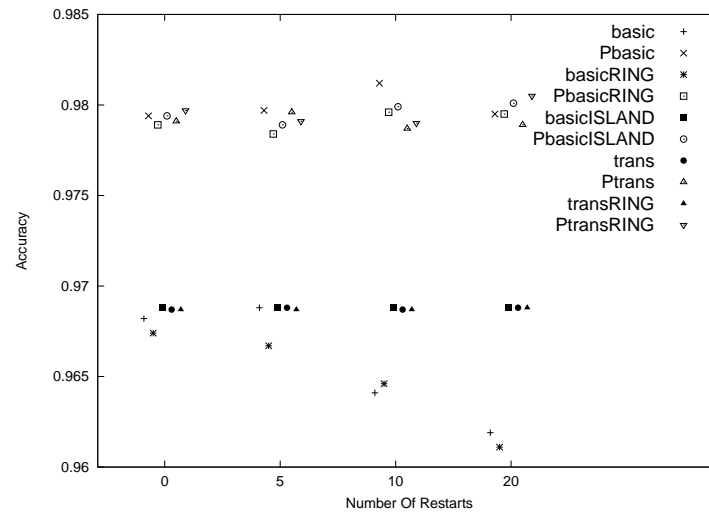


Figure B.207: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f737_355

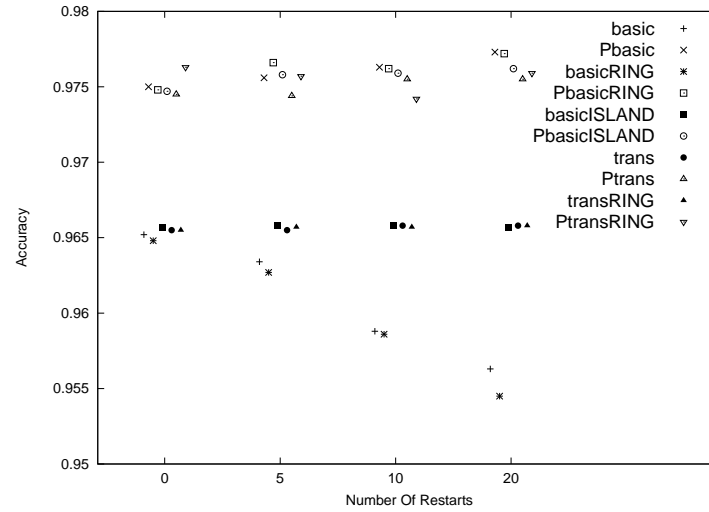


Figure B.208: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f1343_354

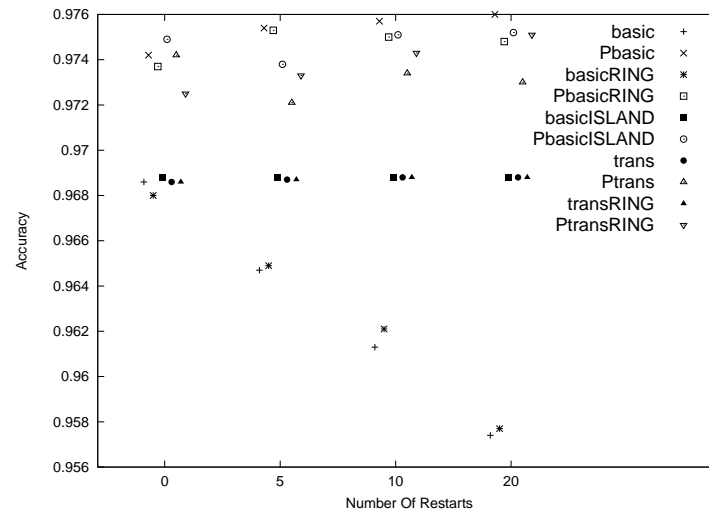


Figure B.209: Comparison of No Post Optimization Results and Post Optimization Results on Problem Instance f1577_354

B.5.2 Second Set of Results

Results With No Post Optimization and No Forced Recentre

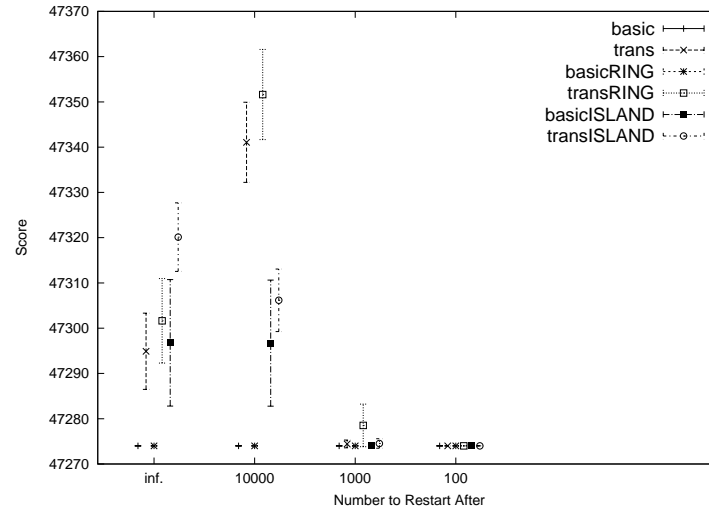


Figure B.210: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance acin1

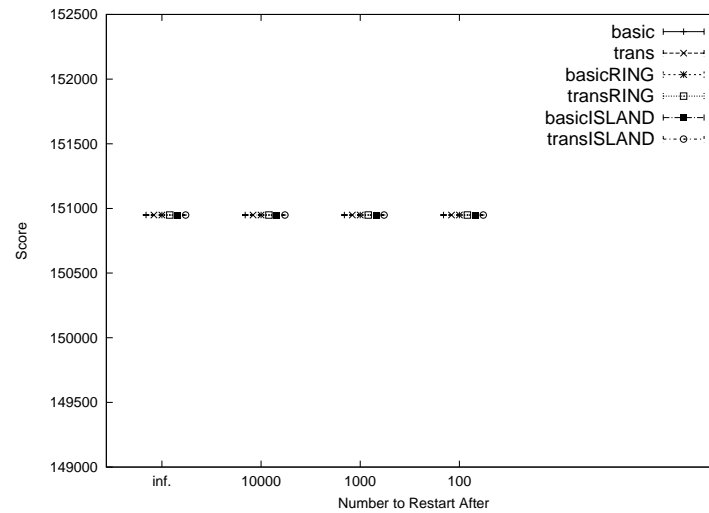


Figure B.211: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance acin2

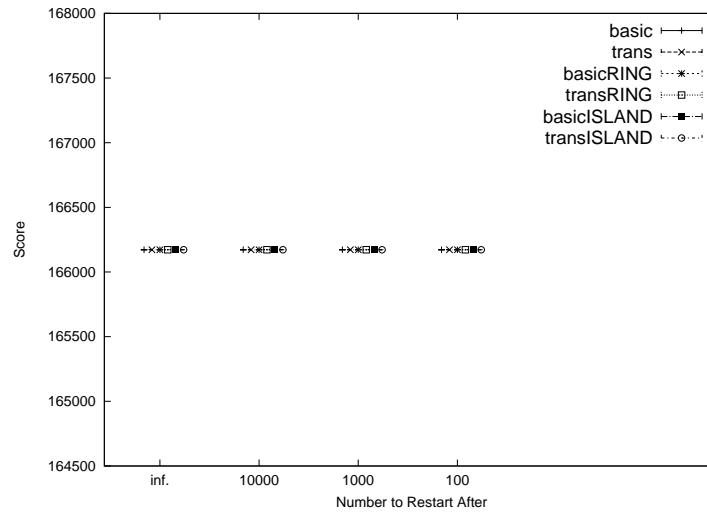


Figure B.212: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance acin3

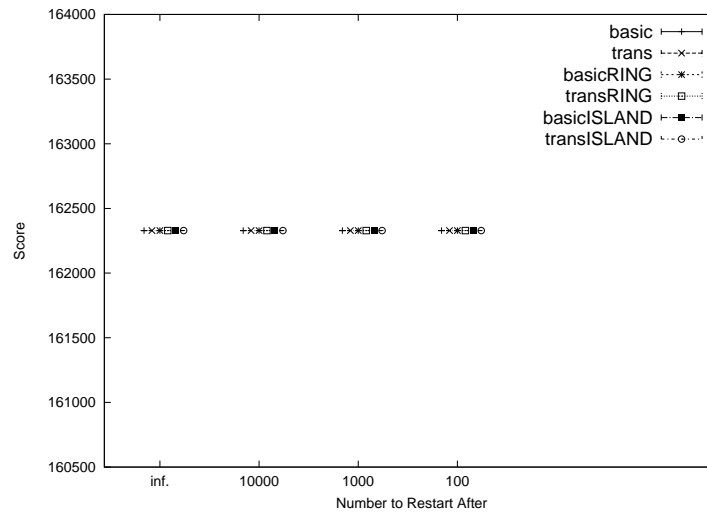


Figure B.213: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance acin5

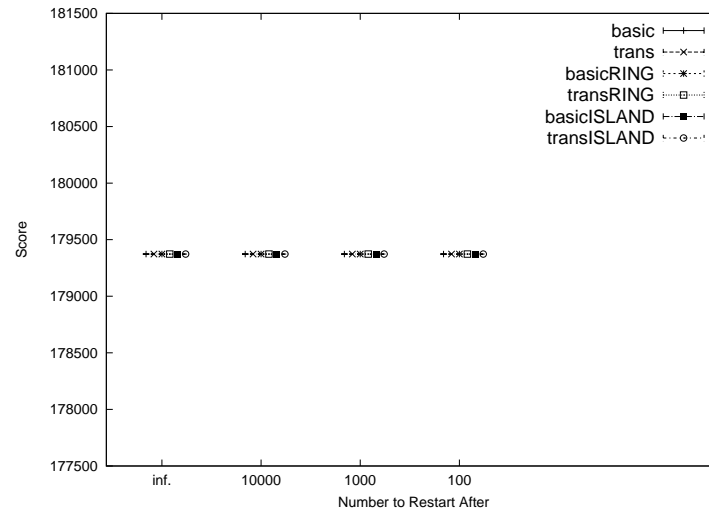


Figure B.214: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance acin7

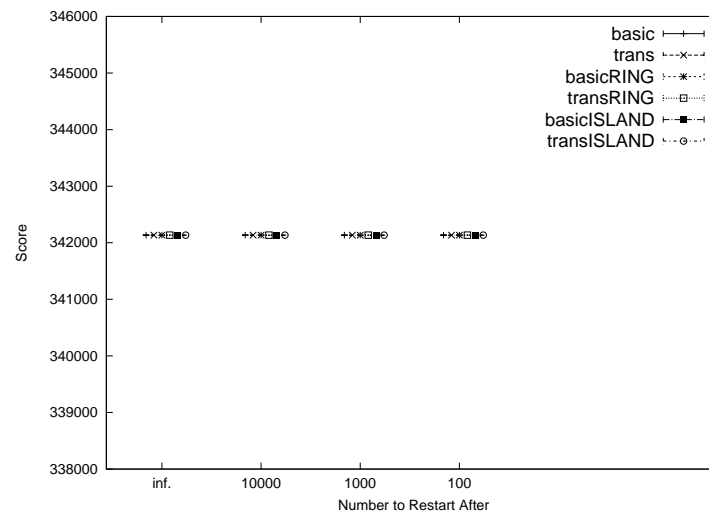


Figure B.215: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance acin9

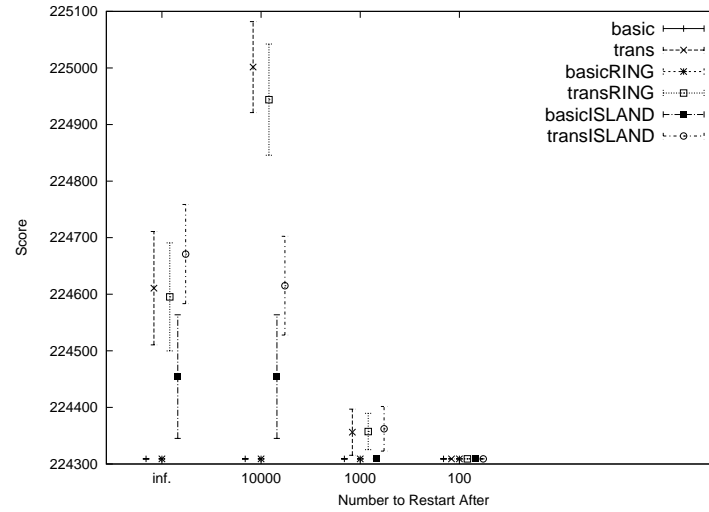


Figure B.216: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance bx842596_4

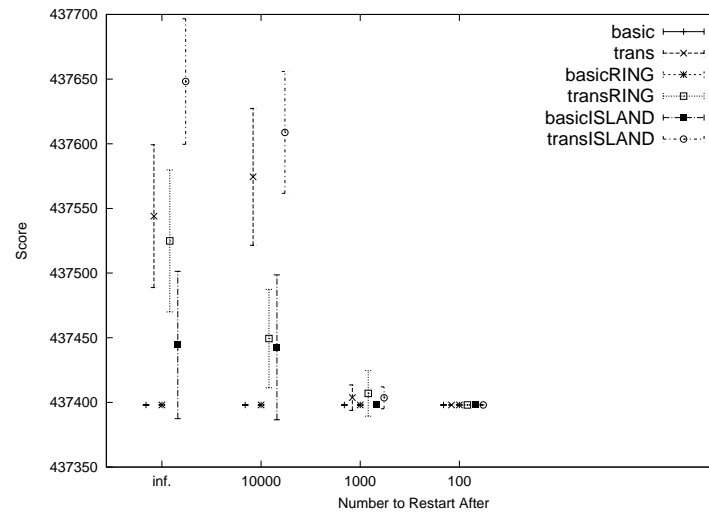


Figure B.217: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance bx842596_7

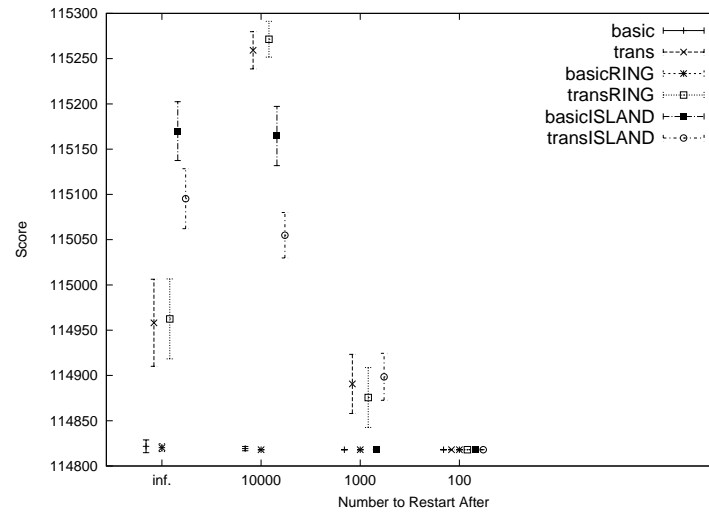


Figure B.218: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance j02459_7

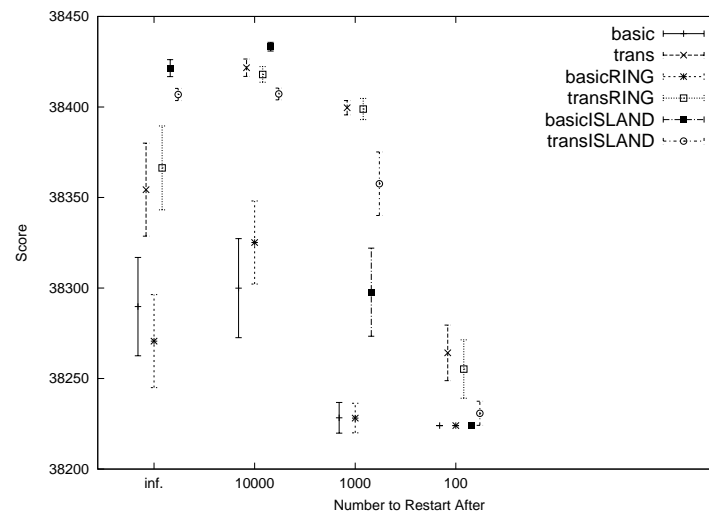


Figure B.219: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance m15421_5

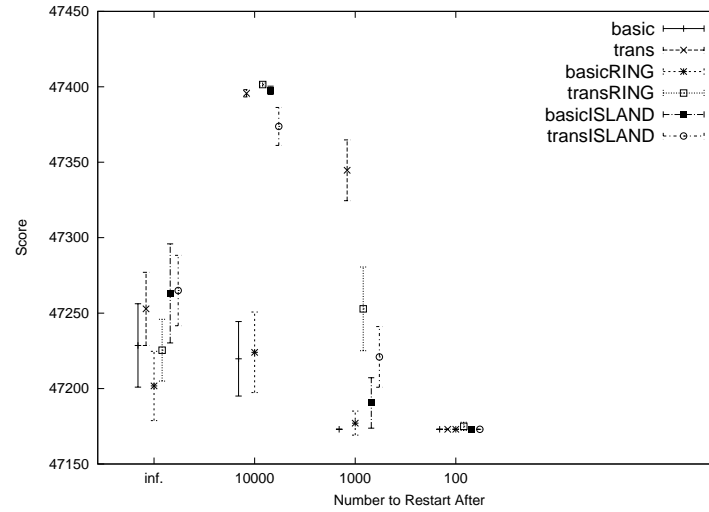


Figure B.220: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance m15421_6

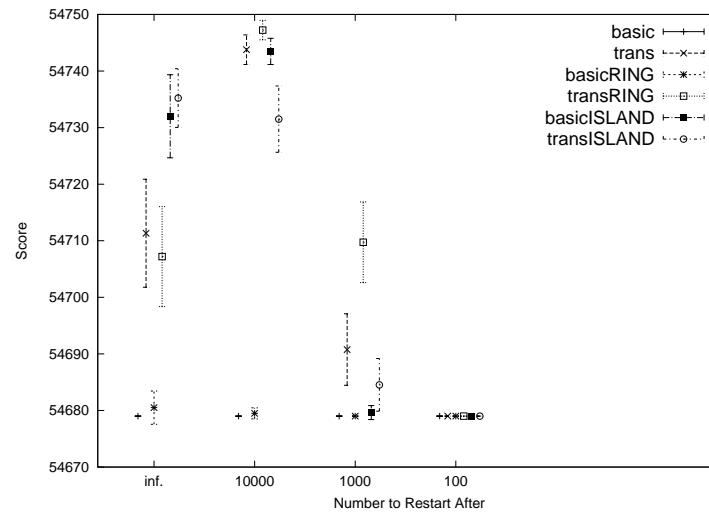


Figure B.221: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance m15421_7

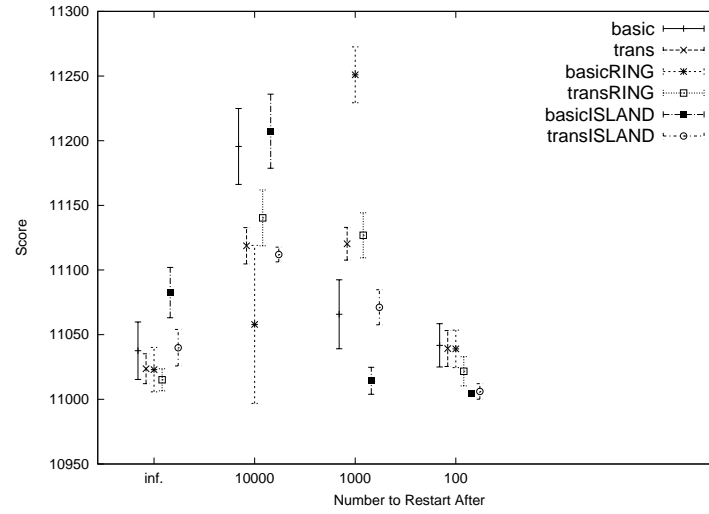


Figure B.222: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance x60189_4

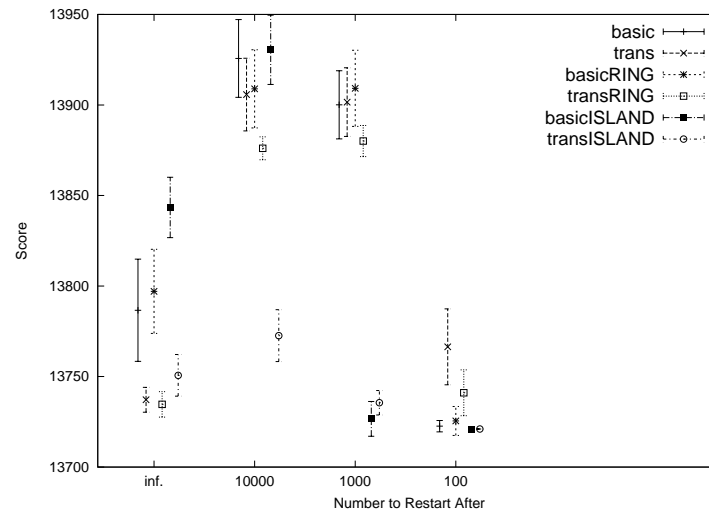


Figure B.223: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance x60189_5

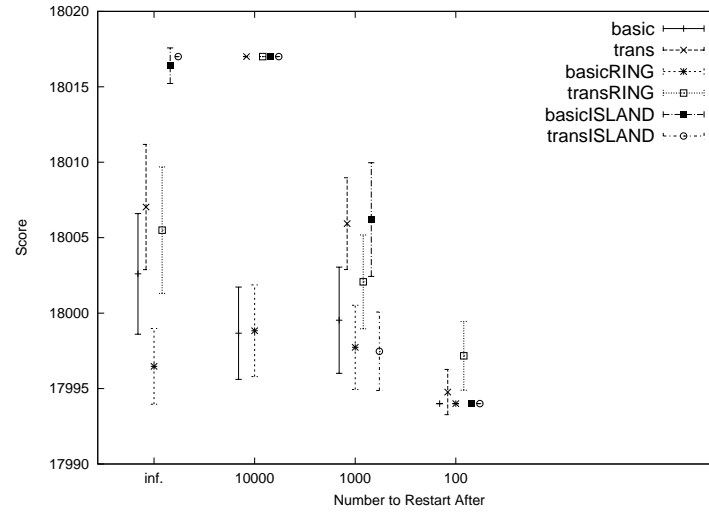


Figure B.224: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance x60189_6

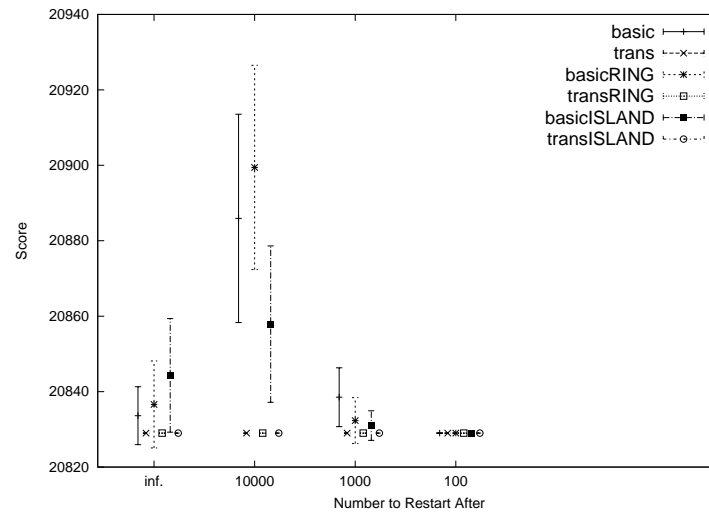


Figure B.225: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance x60189_7

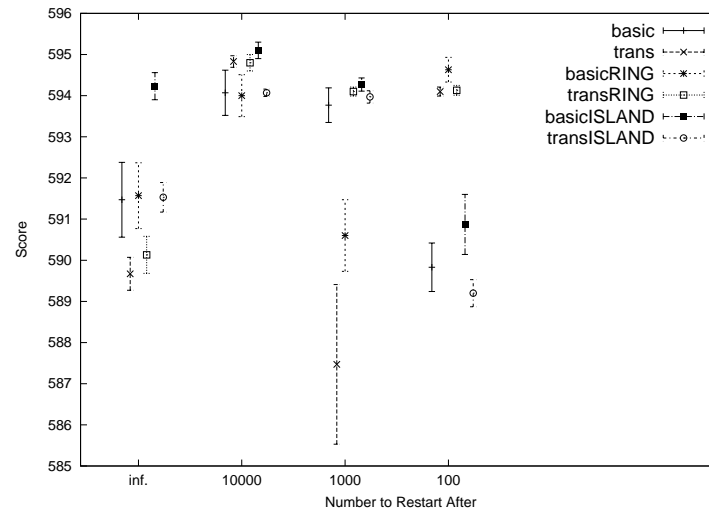


Figure B.226: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f25_305

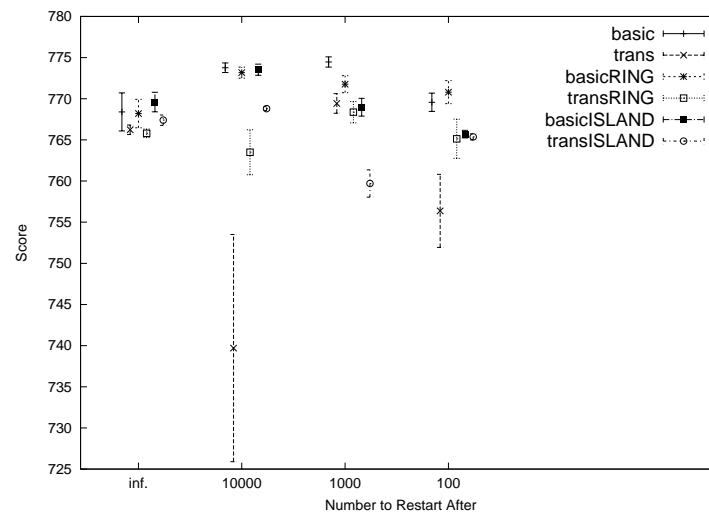


Figure B.227: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f25_400

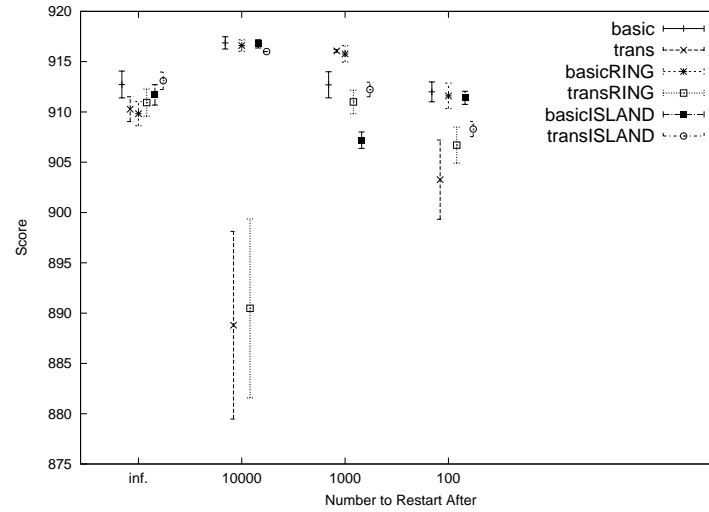


Figure B.228: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f25_500

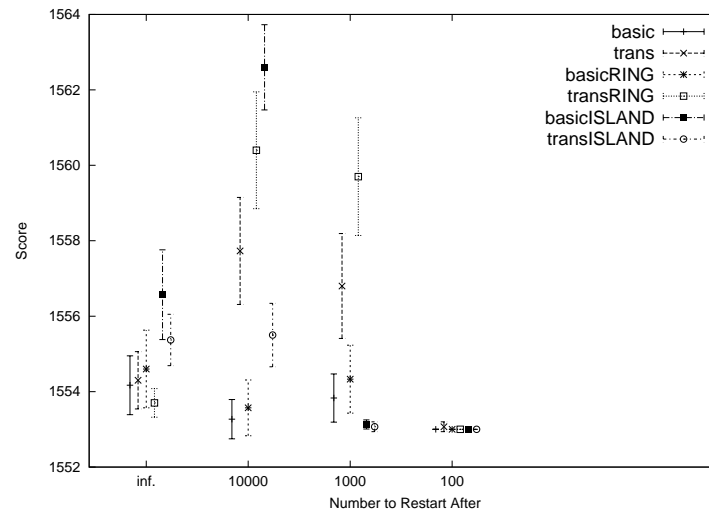


Figure B.229: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f50_315

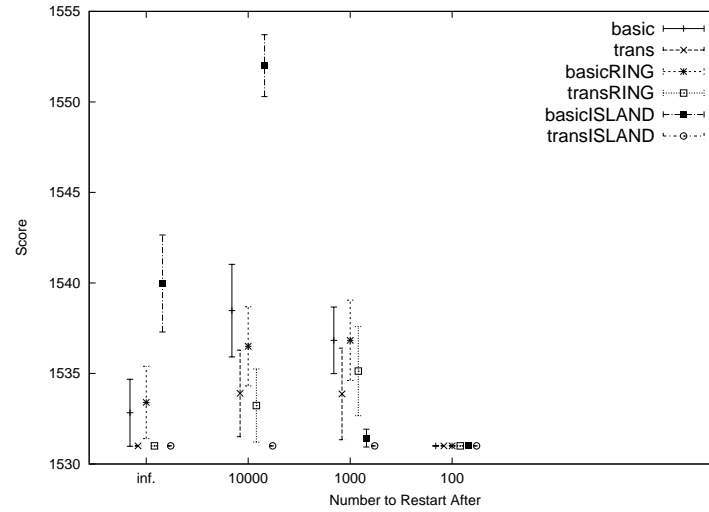


Figure B.230: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f50_412

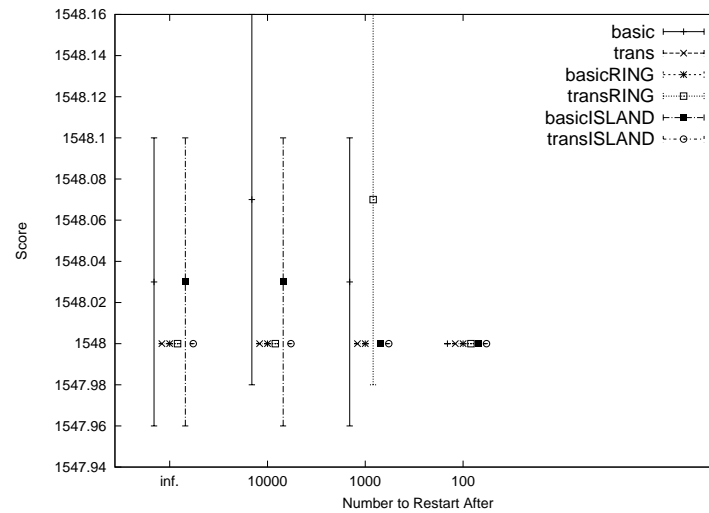


Figure B.231: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f50_498

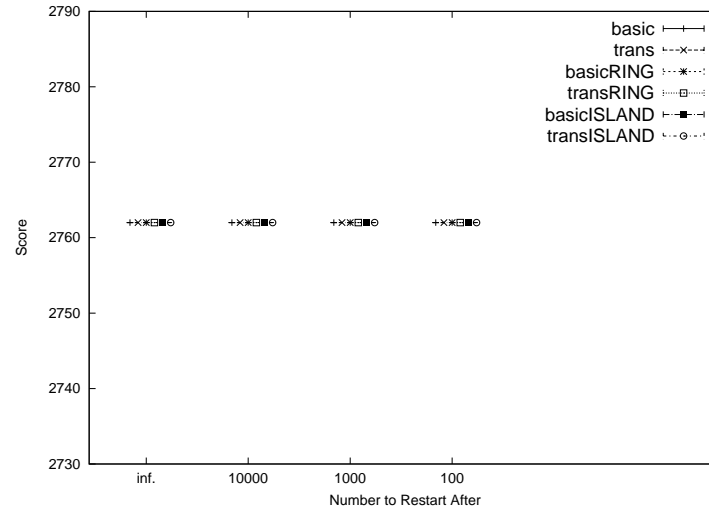


Figure B.232: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f100_307

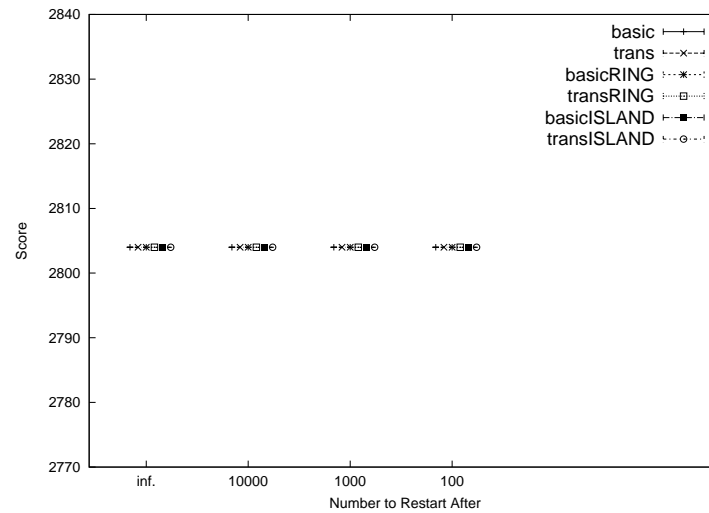


Figure B.233: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f100_415

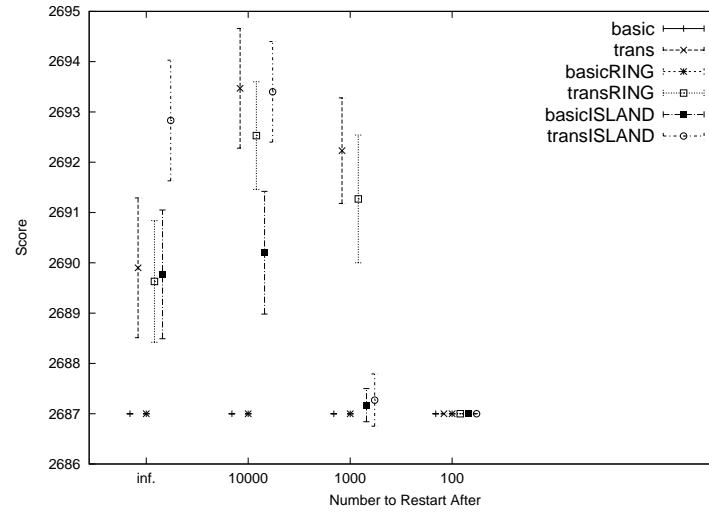


Figure B.234: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f100_512

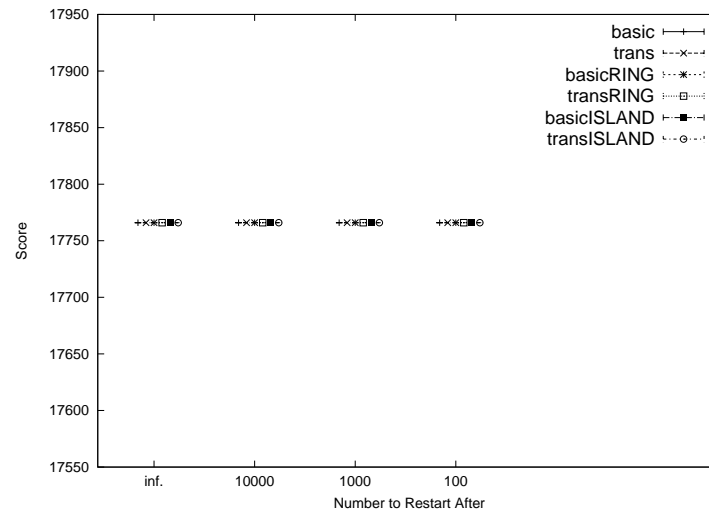


Figure B.235: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f508_354

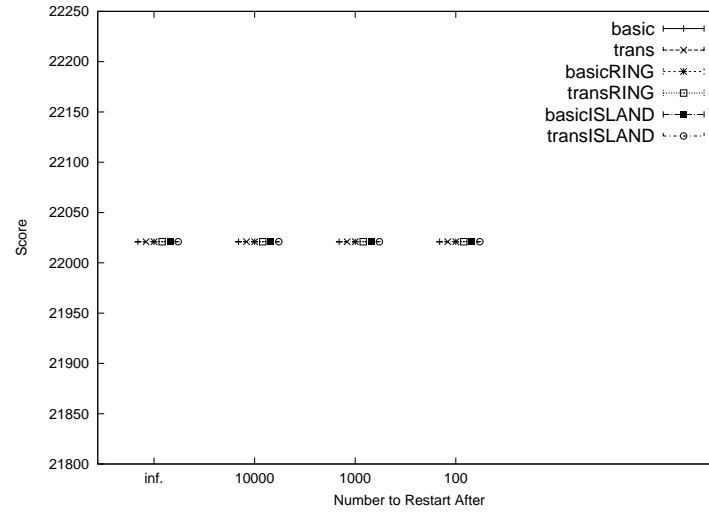


Figure B.236: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f635_350

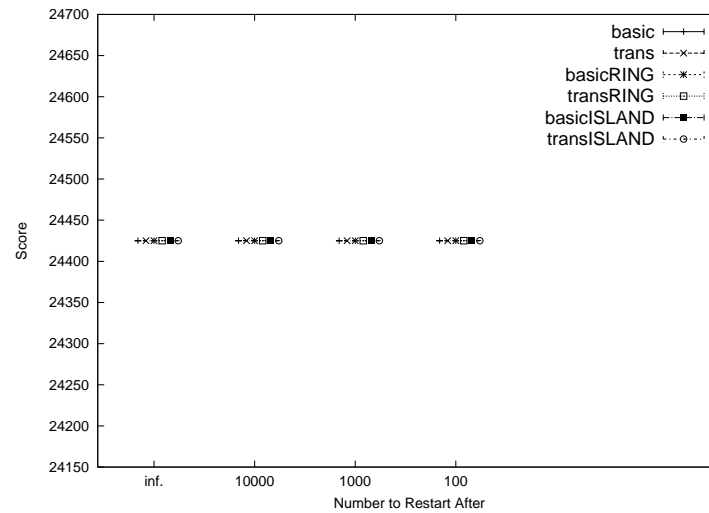


Figure B.237: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f737_355

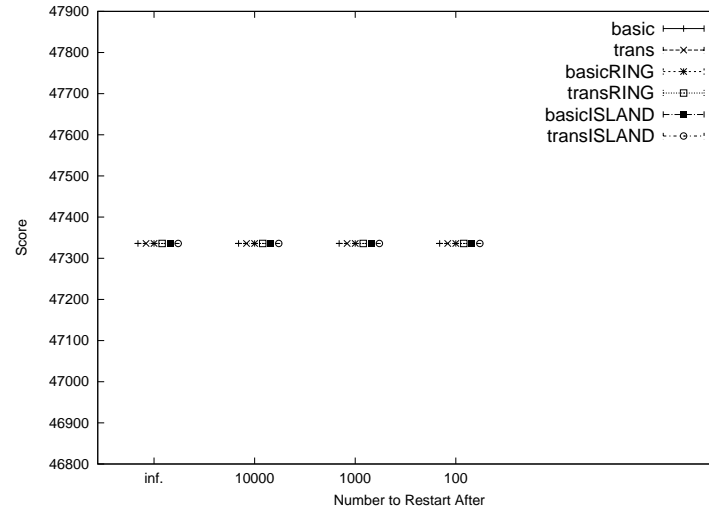


Figure B.238: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f1343_354

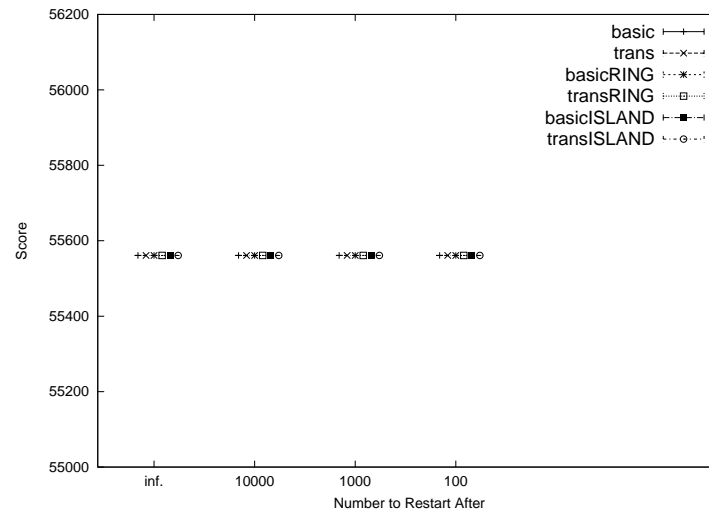


Figure B.239: Comparison of Best Results Between Algorithm Variations and No Forced Recentre on Problem Instance f1577_354

Results With Post Optimization and No Forced Recentre

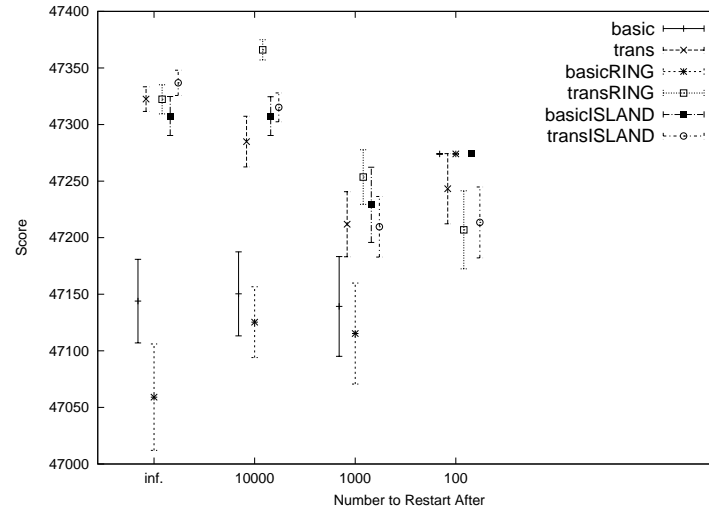


Figure B.240: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance acin1

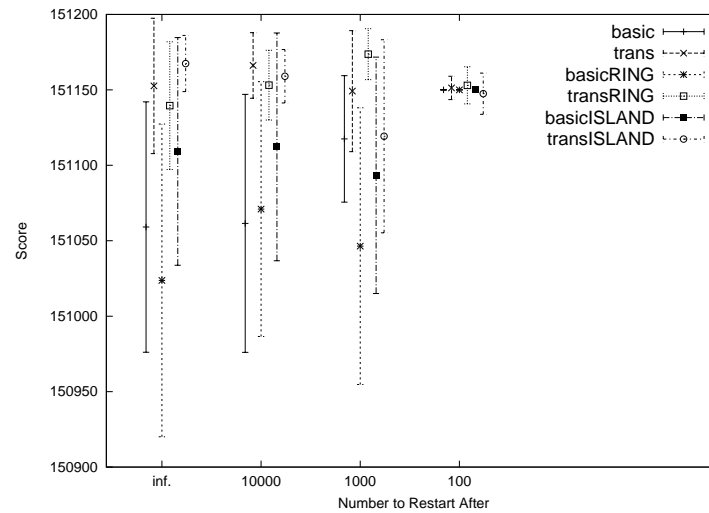


Figure B.241: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance acin2

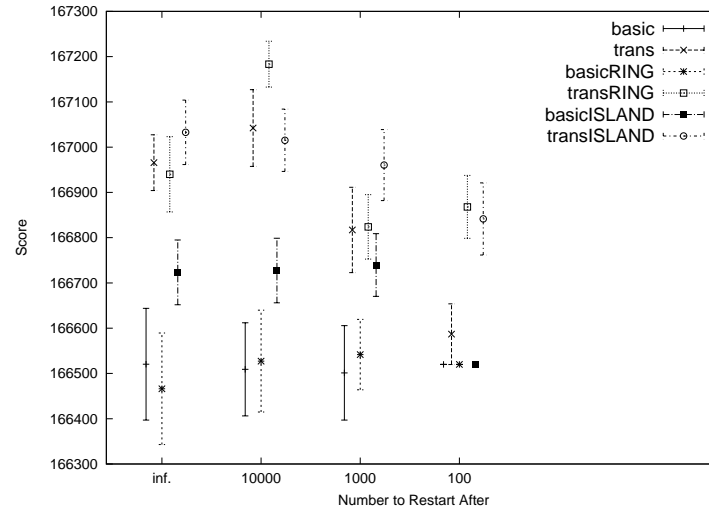


Figure B.242: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance acin3

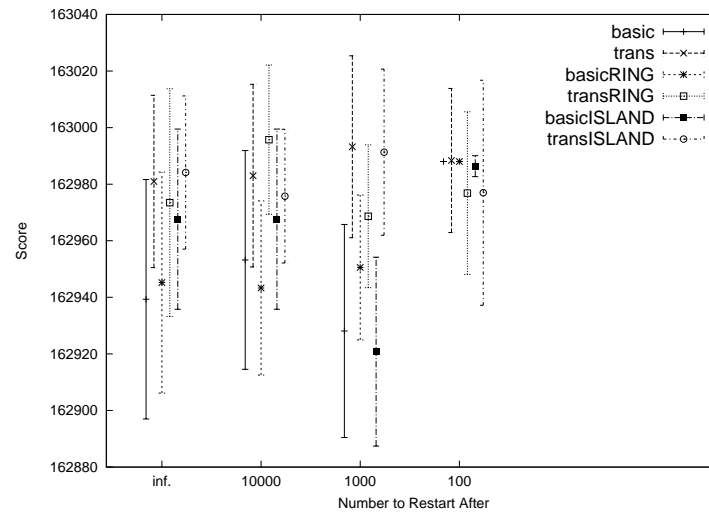


Figure B.243: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance acin5

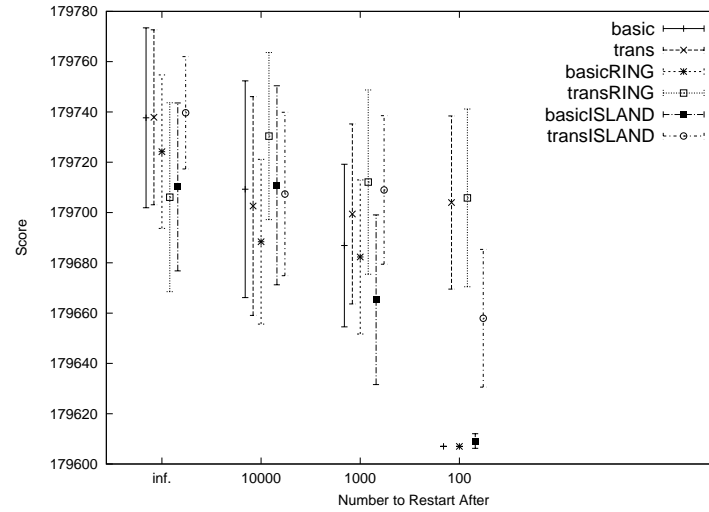


Figure B.244: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance acin7

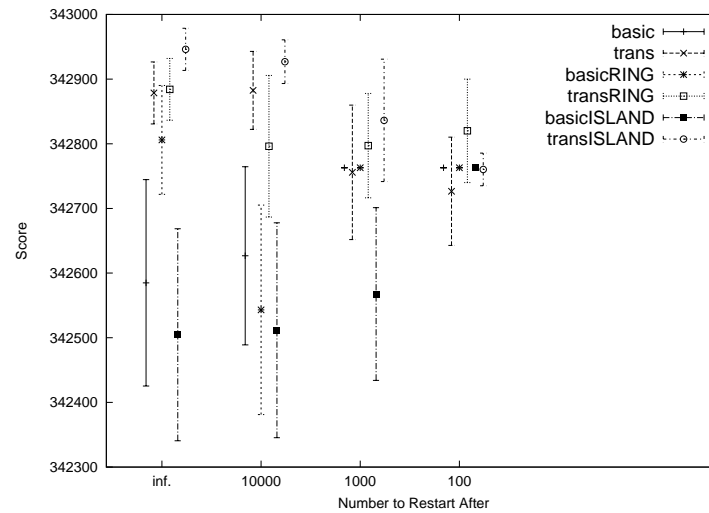


Figure B.245: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance acin9

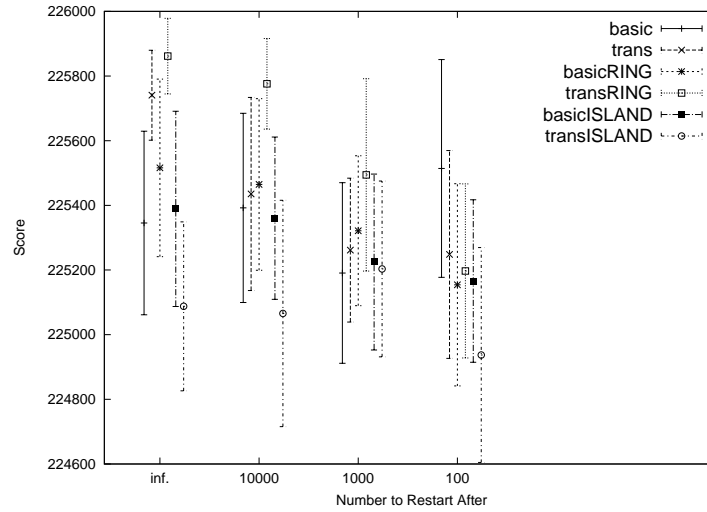


Figure B.246: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance bx842596_4

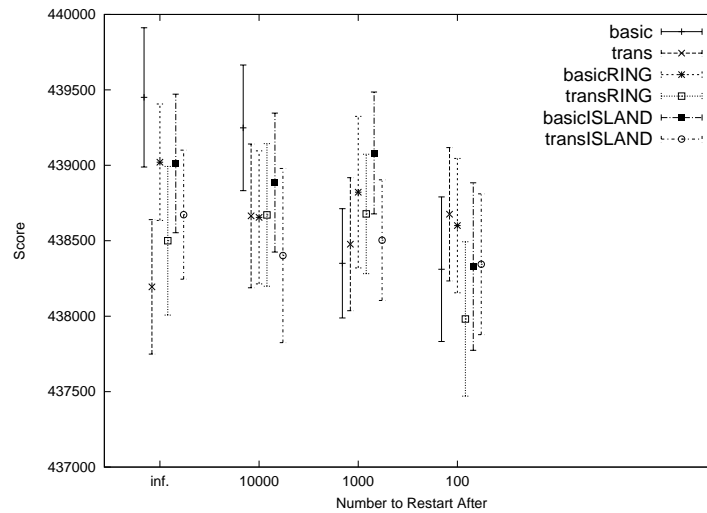


Figure B.247: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance bx842596_7

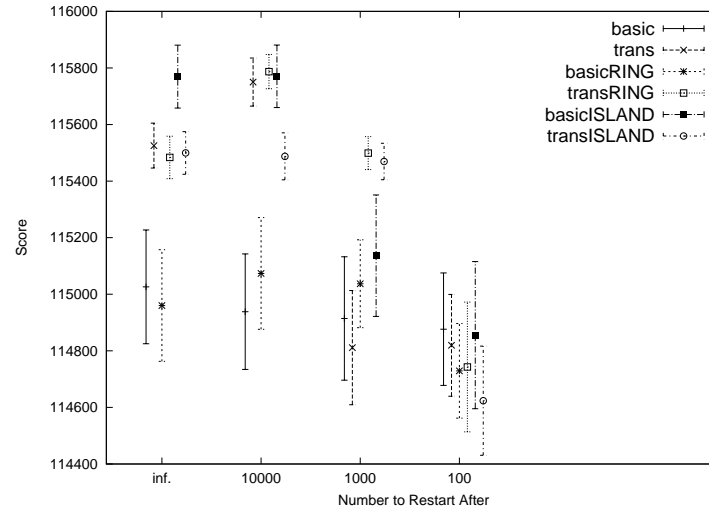


Figure B.248: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance j02459_7

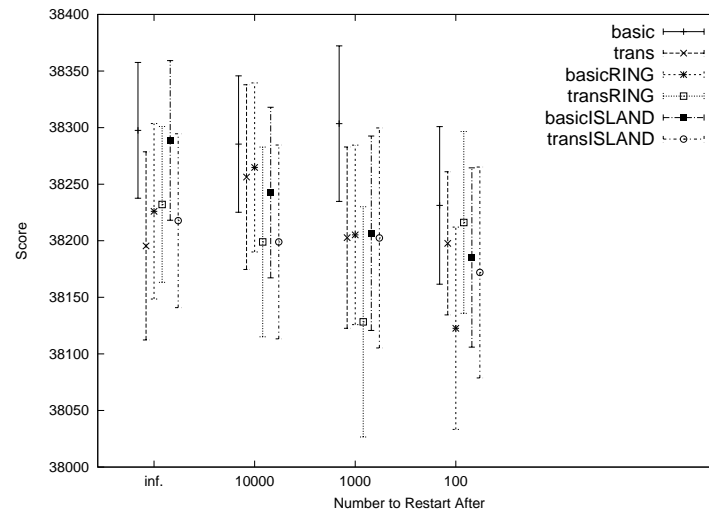


Figure B.249: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance m15421_5

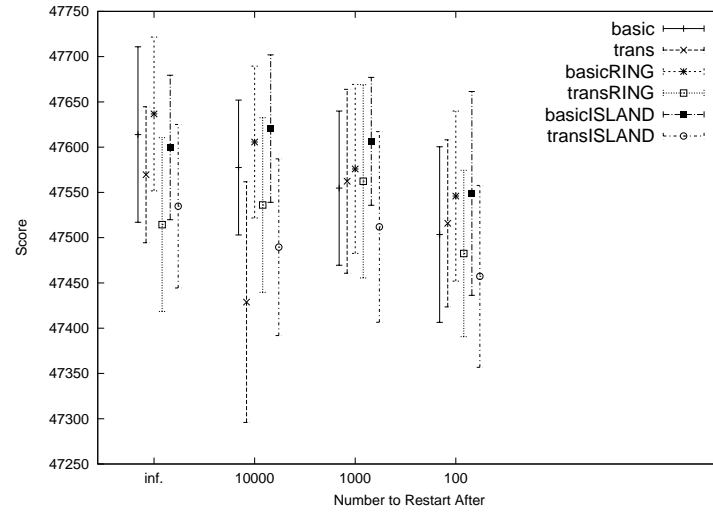


Figure B.250: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance m15421_6

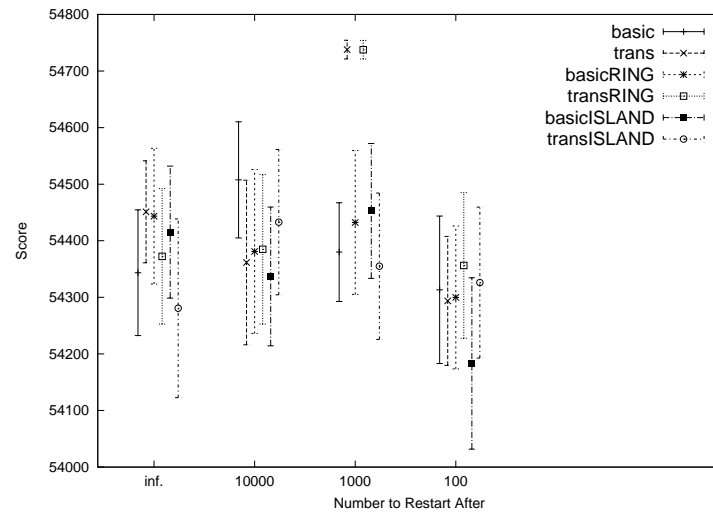


Figure B.251: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance m15421_7

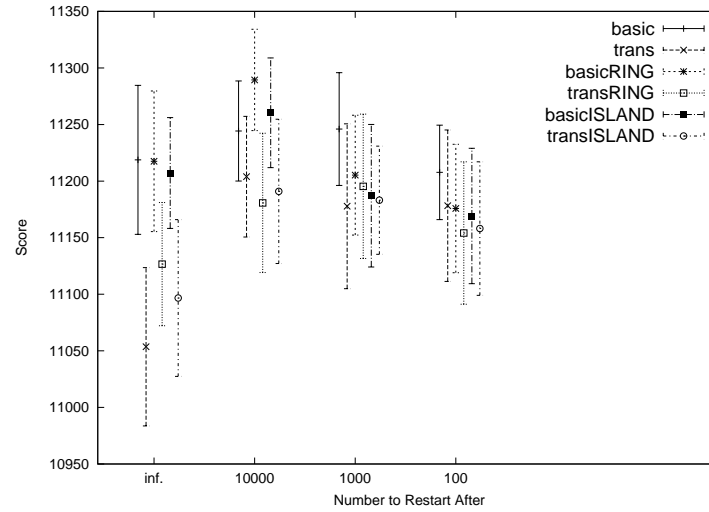


Figure B.252: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance x60189_4

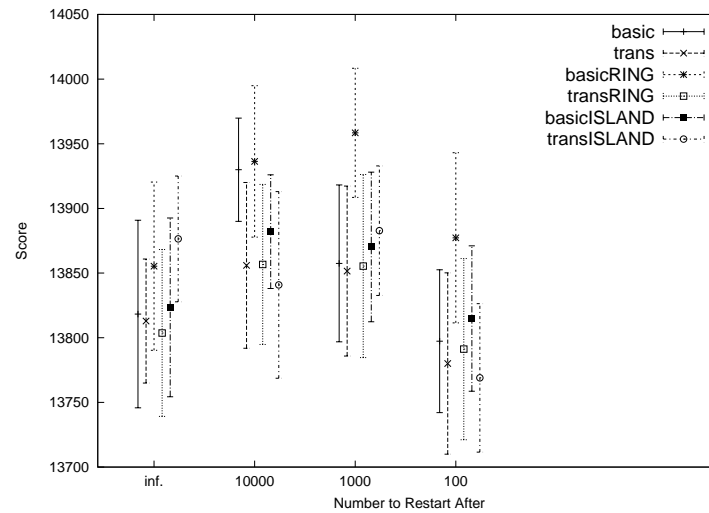


Figure B.253: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance x60189_5

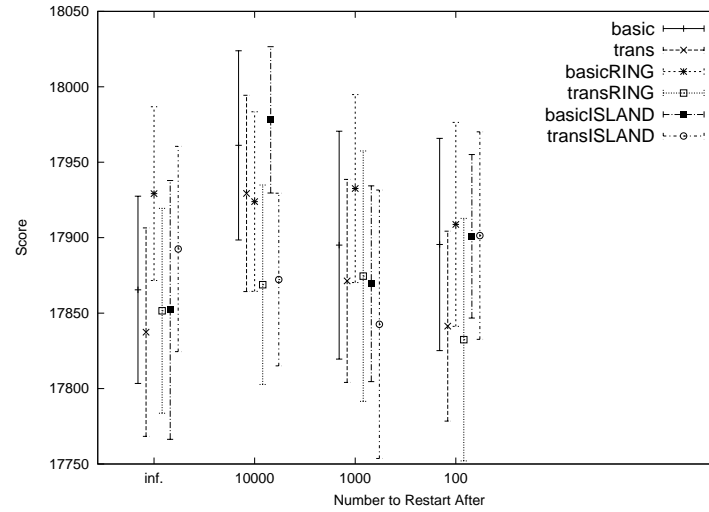


Figure B.254: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance x60189_6

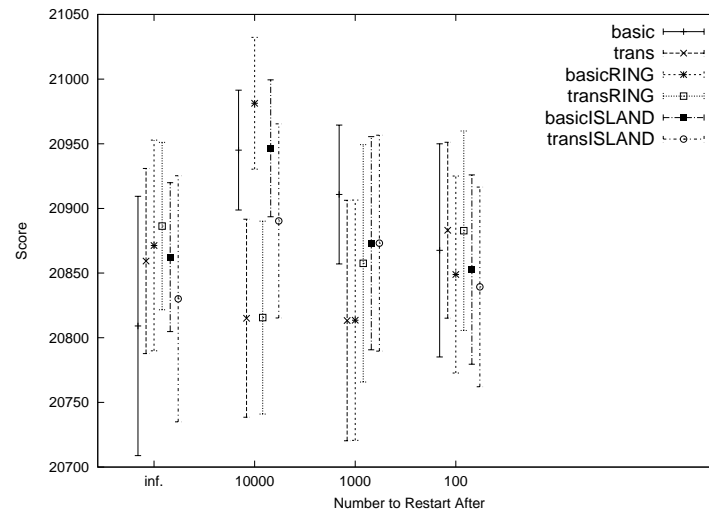


Figure B.255: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance x60189_7

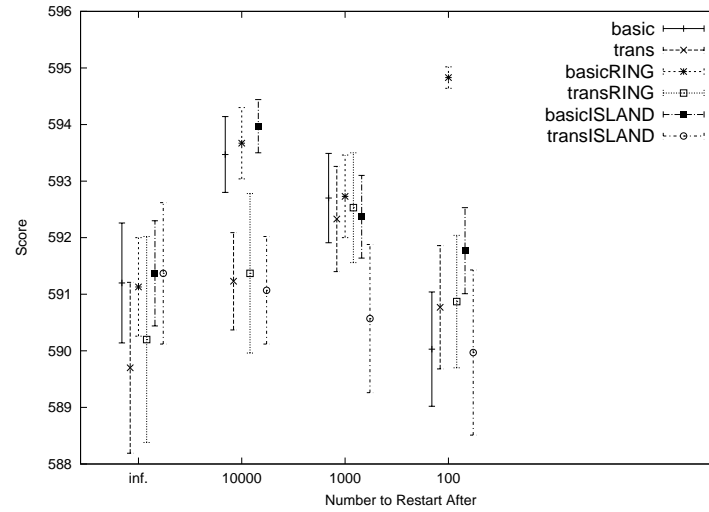


Figure B.256: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f25_305

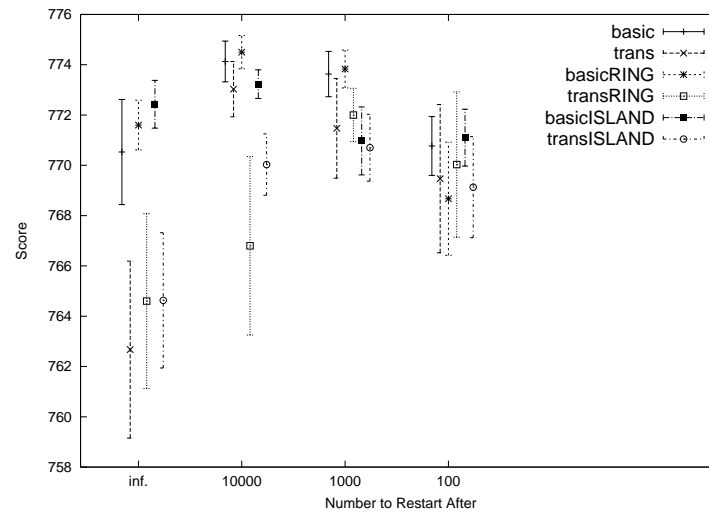


Figure B.257: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f25_400

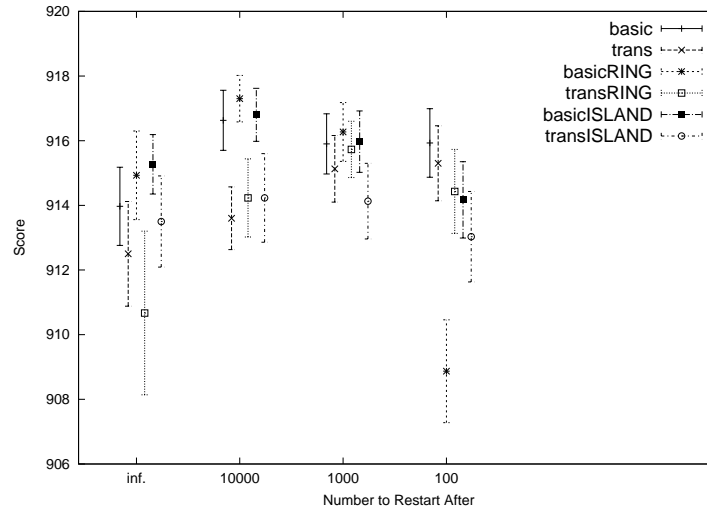


Figure B.258: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f25_500

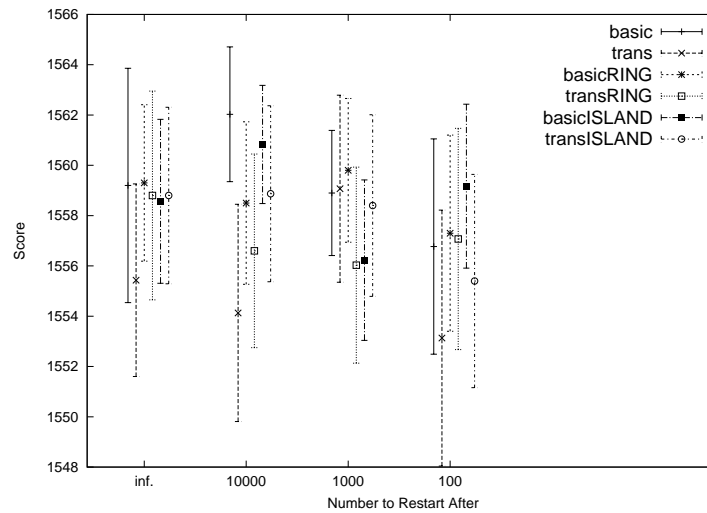


Figure B.259: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f50_315

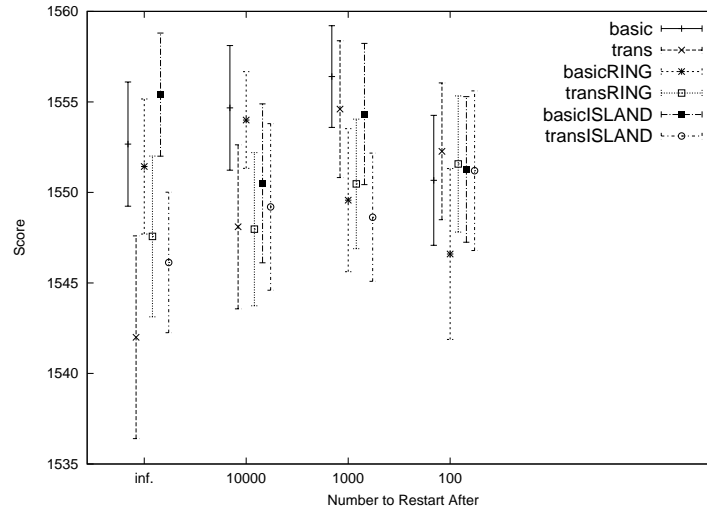


Figure B.260: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f50_412

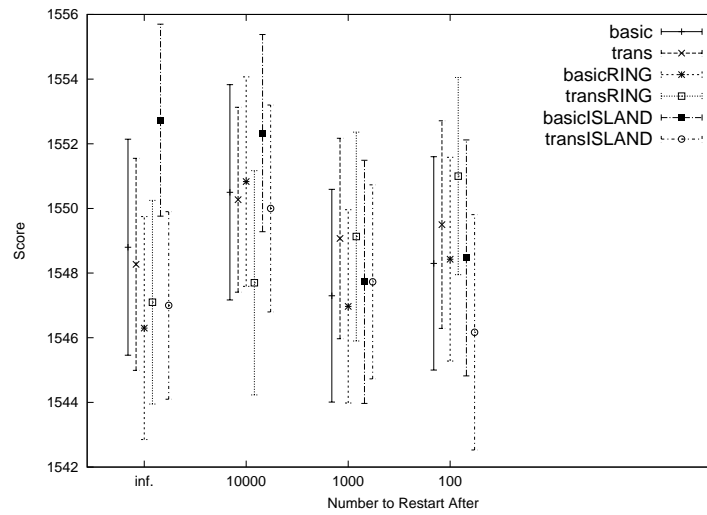


Figure B.261: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f50_498

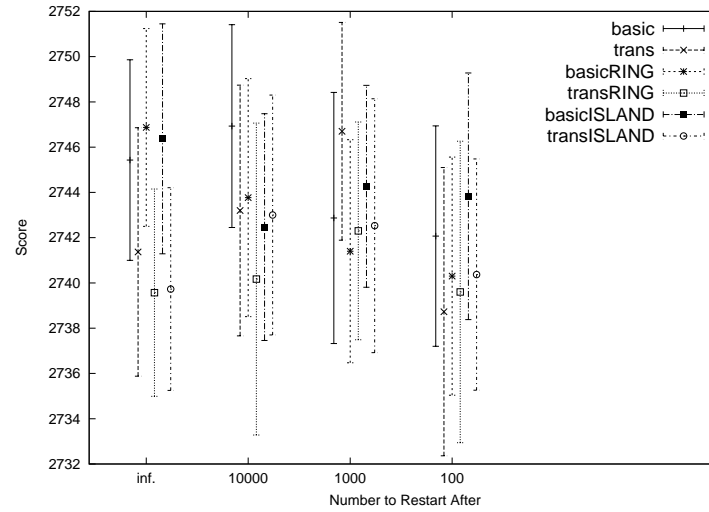


Figure B.262: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f100_307

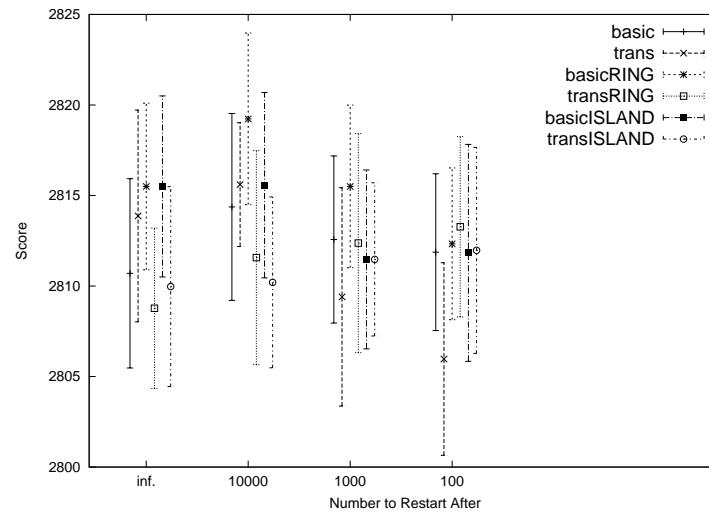


Figure B.263: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f100_415

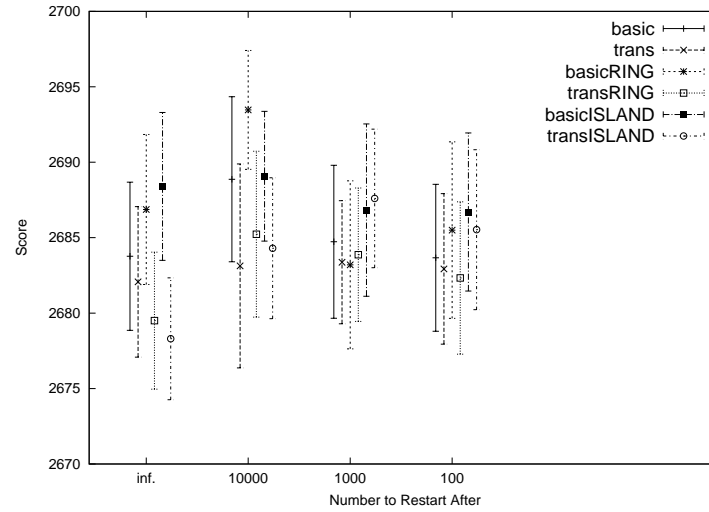


Figure B.264: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f100_512

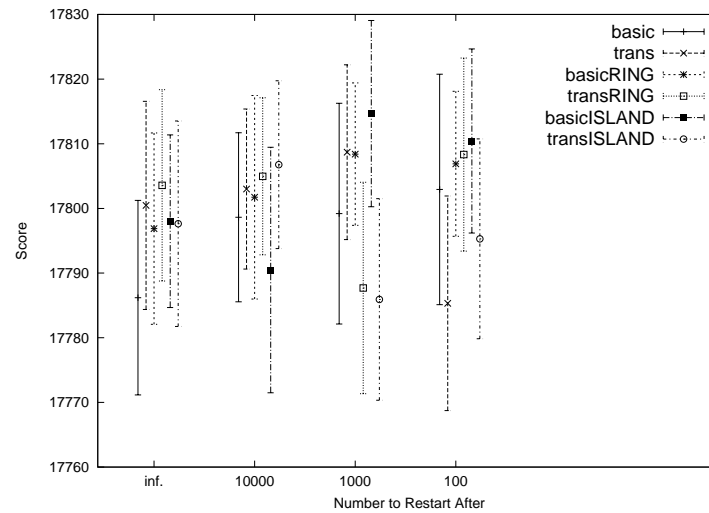


Figure B.265: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f508_354

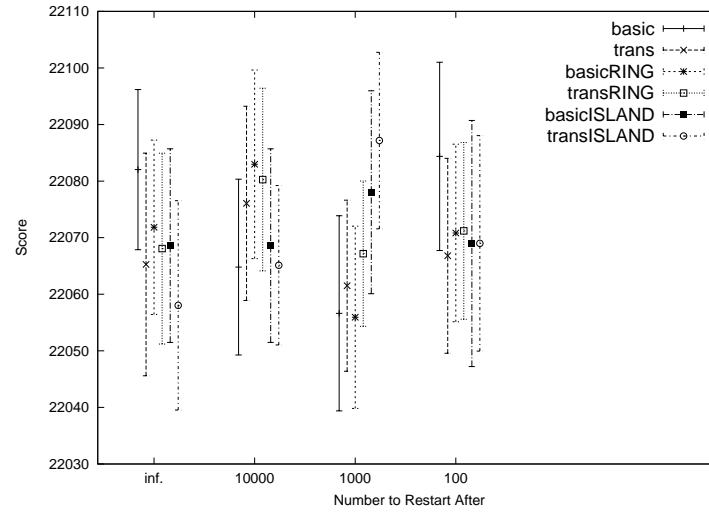


Figure B.266: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f635_350

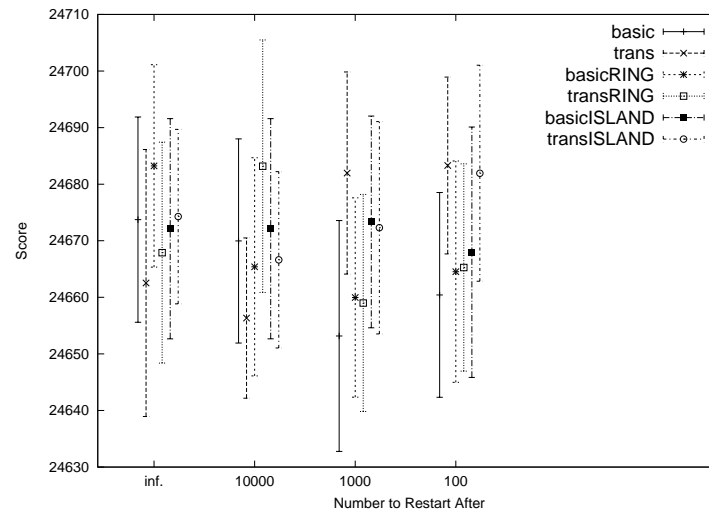


Figure B.267: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f737_355

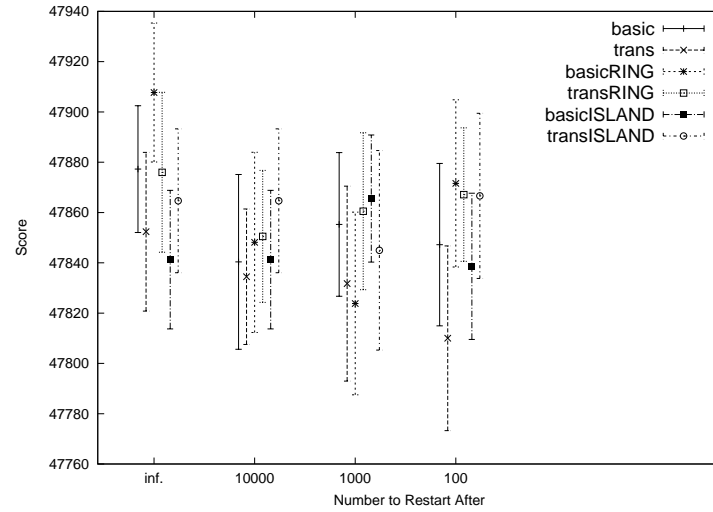


Figure B.268: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f1343_354

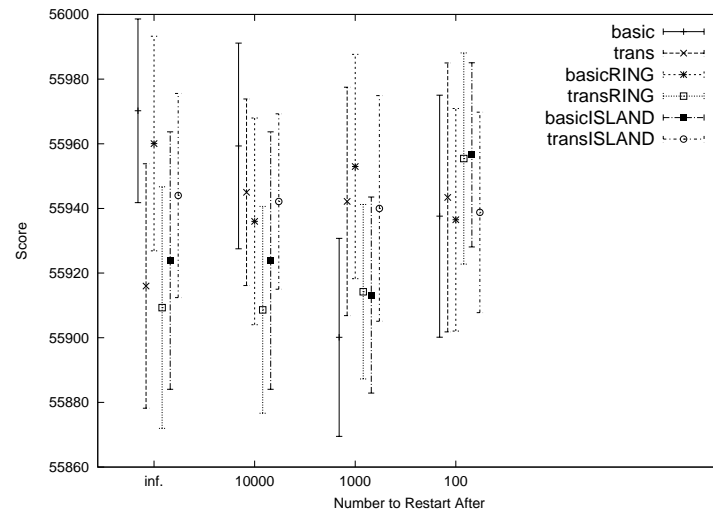


Figure B.269: Comparison of Best Results Between All Algorithm Variations and No Forced Recentre on Problem Instance f1577_354

Results With No Post on Large Real World Problem Instances

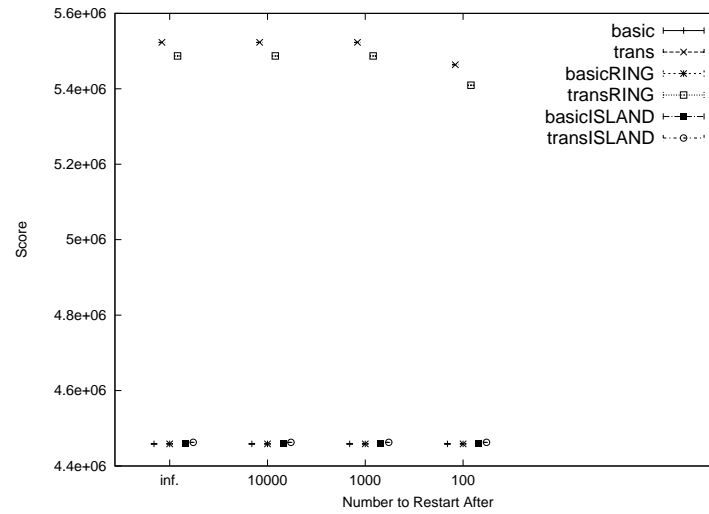


Figure B.270: Comparison of Best Results Between All Algorithm Variations on Instance COL

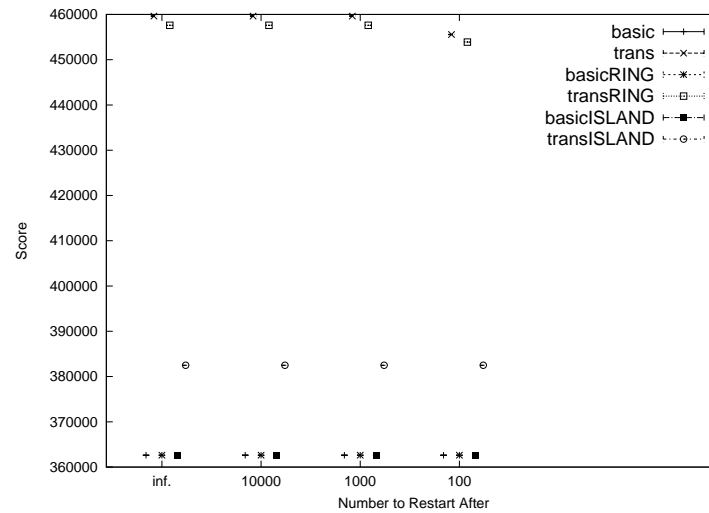


Figure B.271: Comparison of Best Results Between All Algorithm Variations on Instance MW2

Comparison of First and Second Set of Results

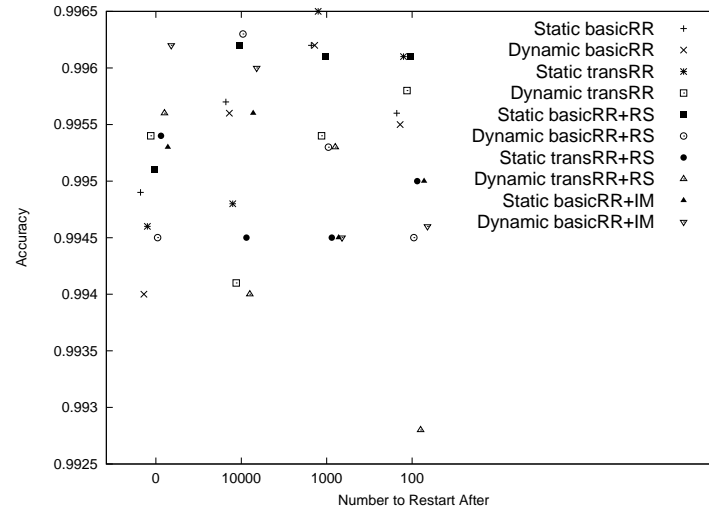


Figure B.272: Comparison of Best Results Between First and Second Set of Experiments on Instance acin1

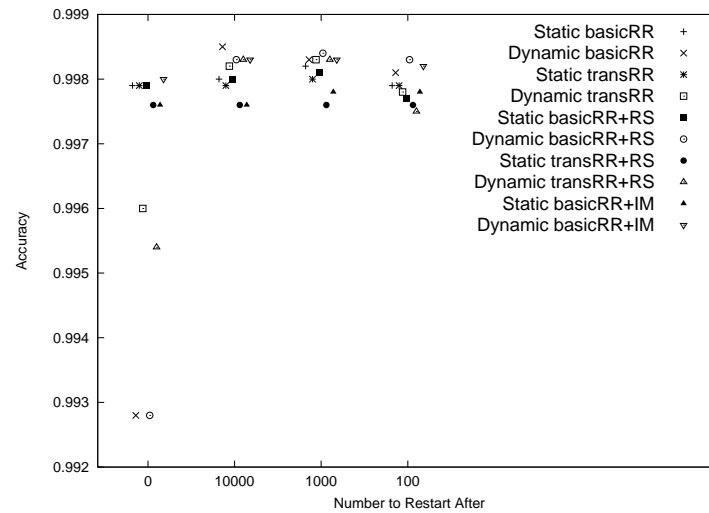


Figure B.273: Comparison of Best Results Between First and Second Set of Experiments on Instance acin2

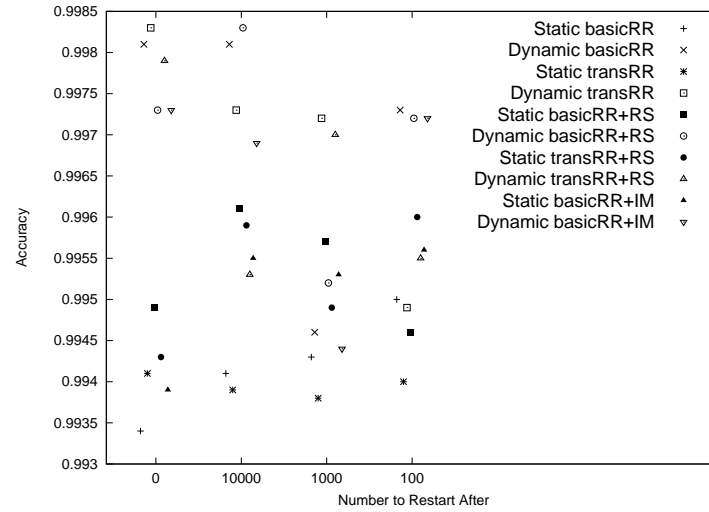


Figure B.274: Comparison of Best Results Between First and Second Set of Experiments on Instance acin3

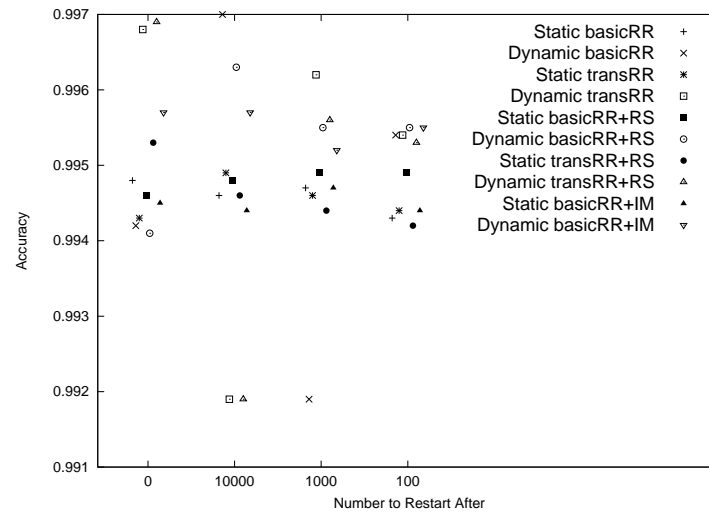


Figure B.275: Comparison of Best Results Between First and Second Set of Experiments on Instance acin5

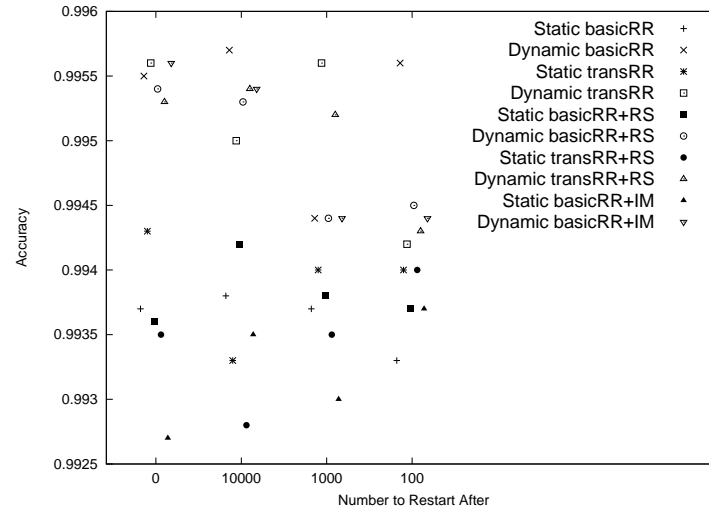


Figure B.276: Comparison of Best Results Between First and Second Set of Experiments on Instance acin7

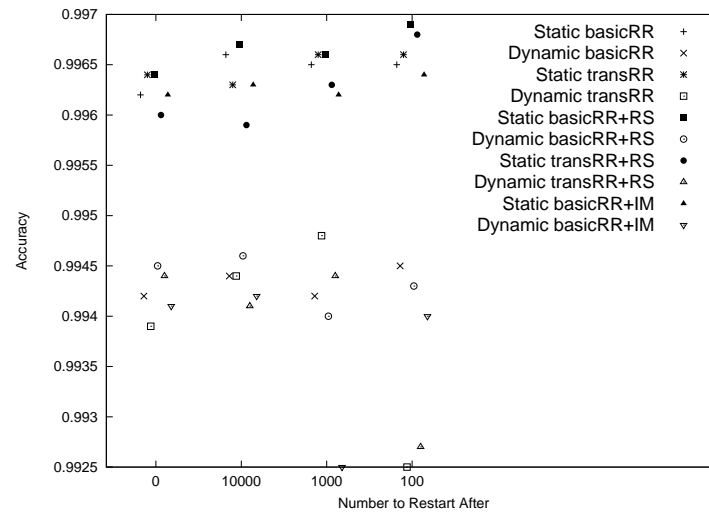


Figure B.277: Comparison of Best Results Between First and Second Set of Experiments on Instance acin9

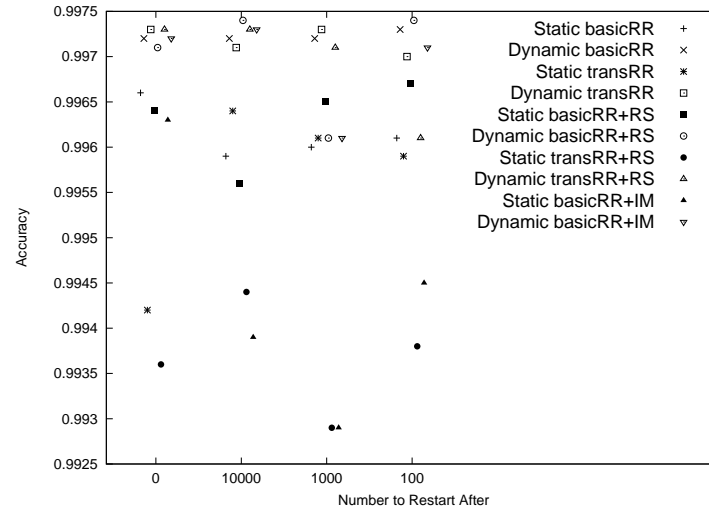


Figure B.278: Comparison of Best Results Between First and Second Set of Experiments on Instance bx842596_4

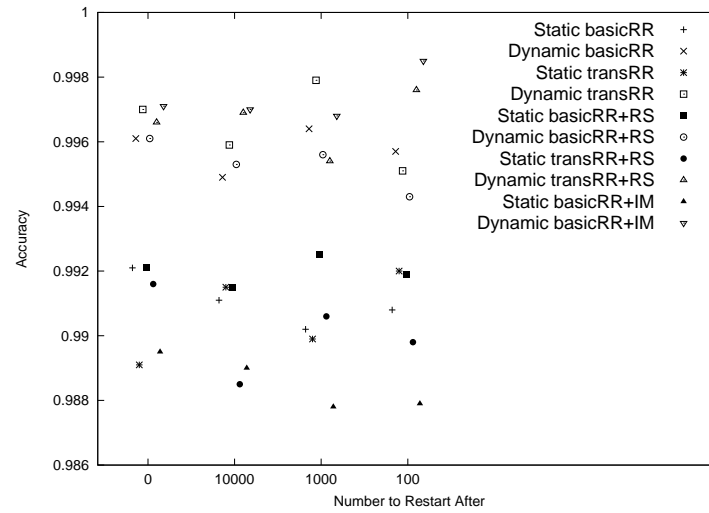


Figure B.279: Comparison of Best Results Between First and Second Set of Experiments on Instance bx842596_7

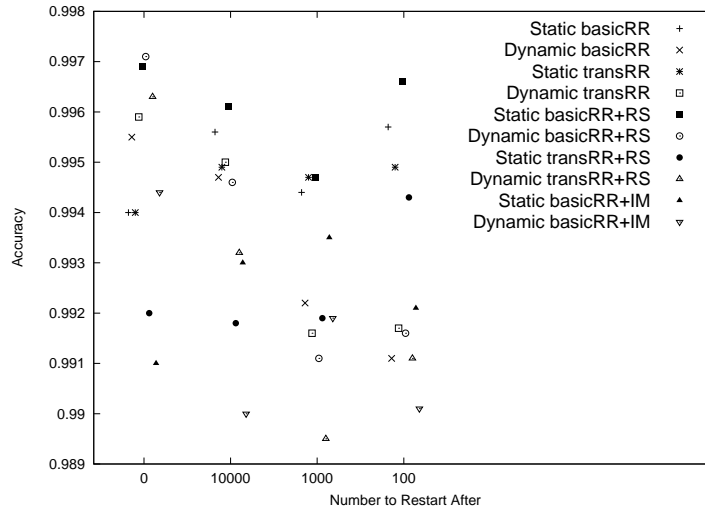


Figure B.280: Comparison of Best Results Between First and Second Set of Experiments on Instance j02459_7

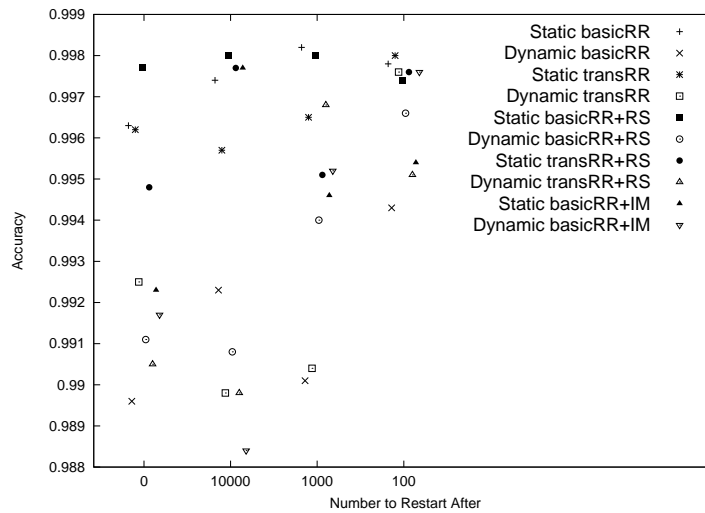


Figure B.281: Comparison of Best Results Between First and Second Set of Experiments on Instance m15421_5

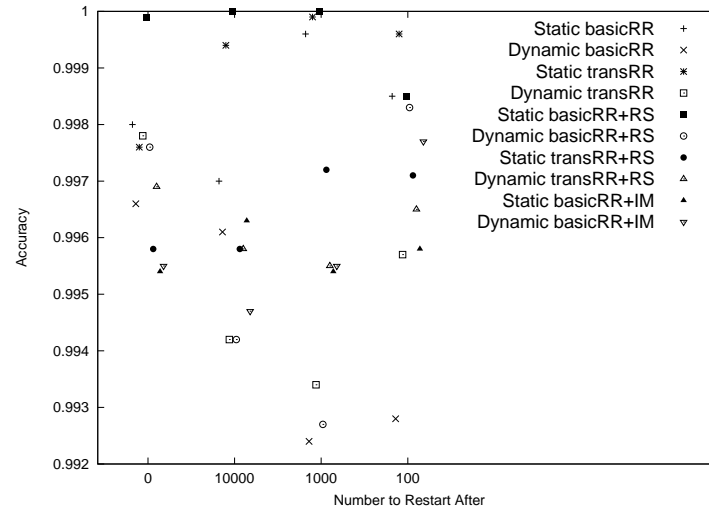


Figure B.282: Comparison of Best Results Between First and Second Set of Experiments on Instance m15421_6

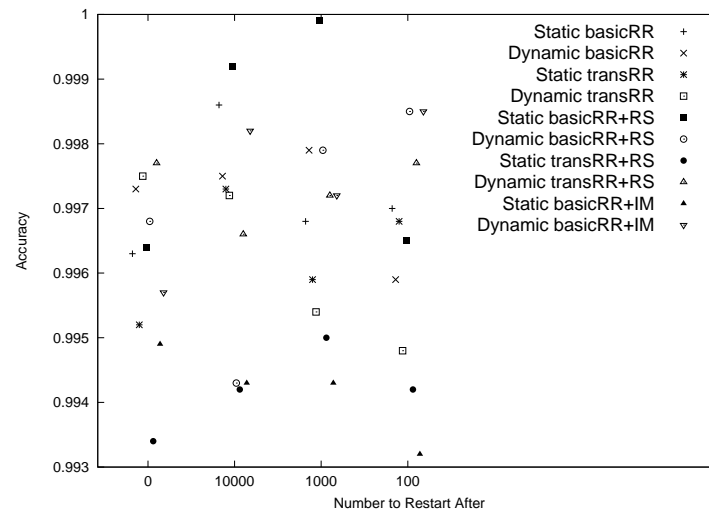


Figure B.283: Comparison of Best Results Between First and Second Set of Experiments on Instance m15421_7

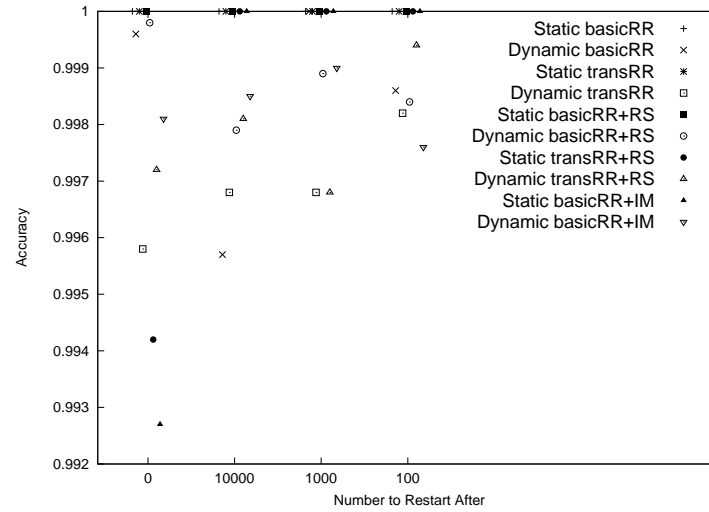


Figure B.284: Comparison of Best Results Between First and Second Set of Experiments on Instance x60189_4

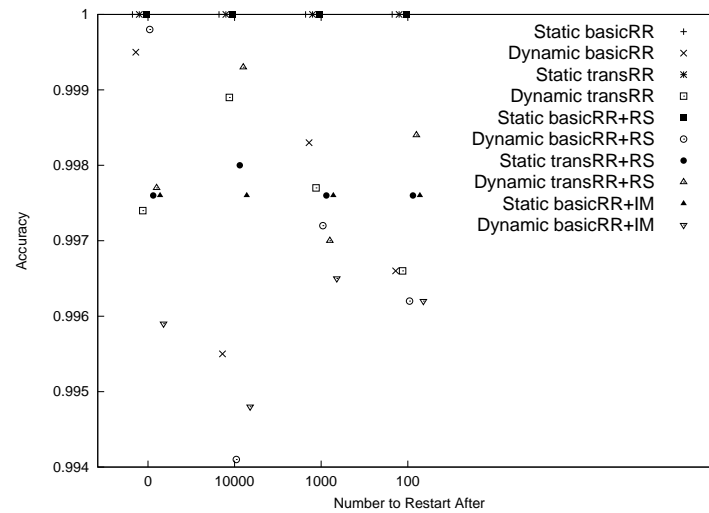


Figure B.285: Comparison of Best Results Between First and Second Set of Experiments on Instance x60189_5

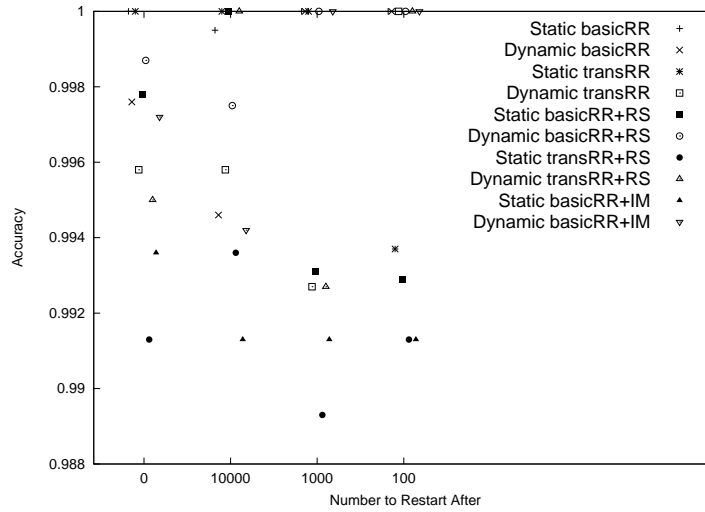


Figure B.286: Comparison of Best Results Between First and Second Set of Experiments on Instance x60189_6

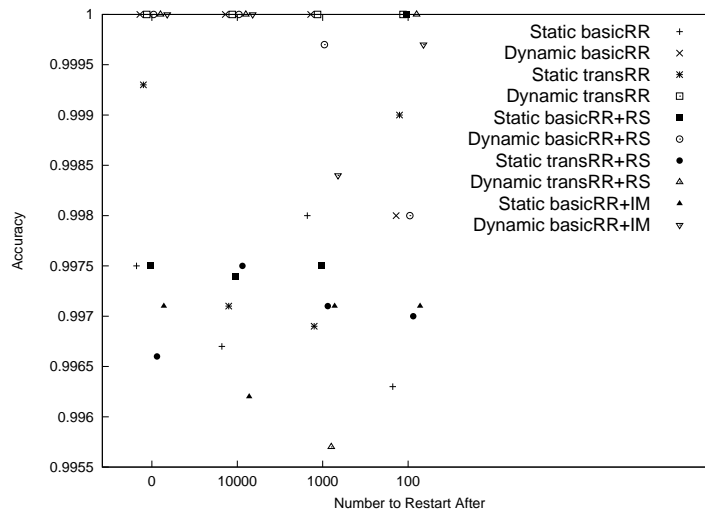


Figure B.287: Comparison of Best Results Between First and Second Set of Experiments on Instance x60189_7

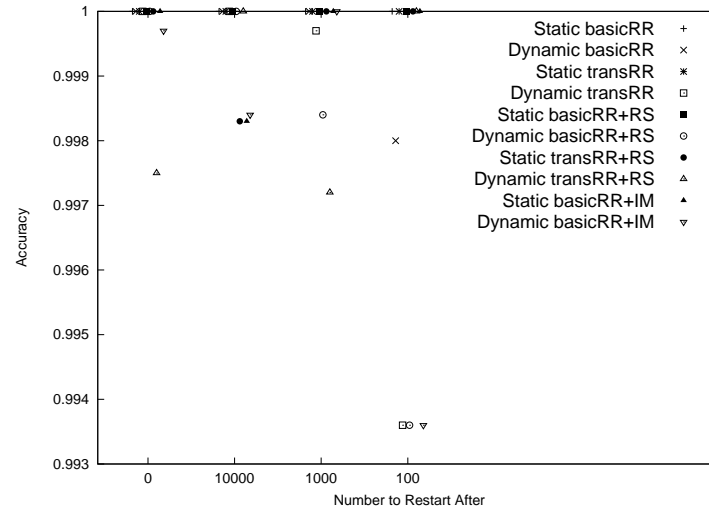


Figure B.288: Comparison of Best Results Between First and Second Set of Experiments on Instance f25_305

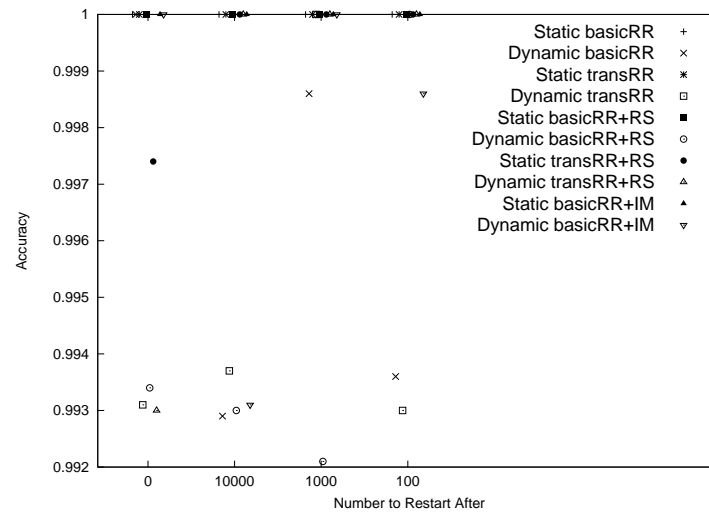


Figure B.289: Comparison of Best Results Between First and Second Set of Experiments on Instance f25_400

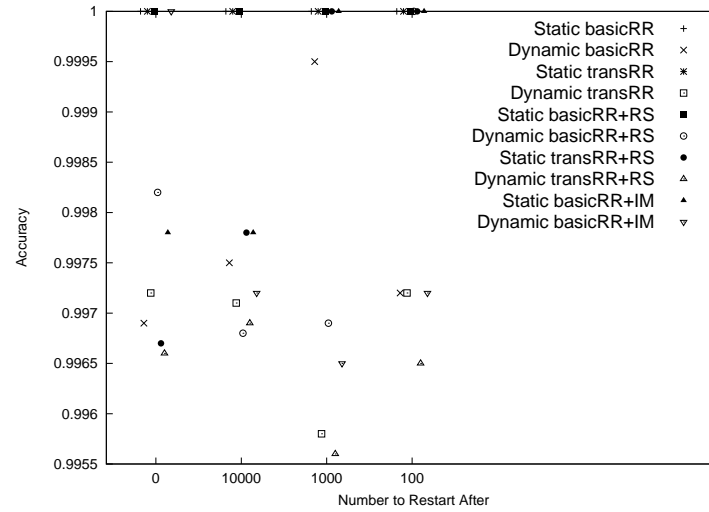


Figure B.290: Comparison of Best Results Between First and Second Set of Experiments on Instance f25_500

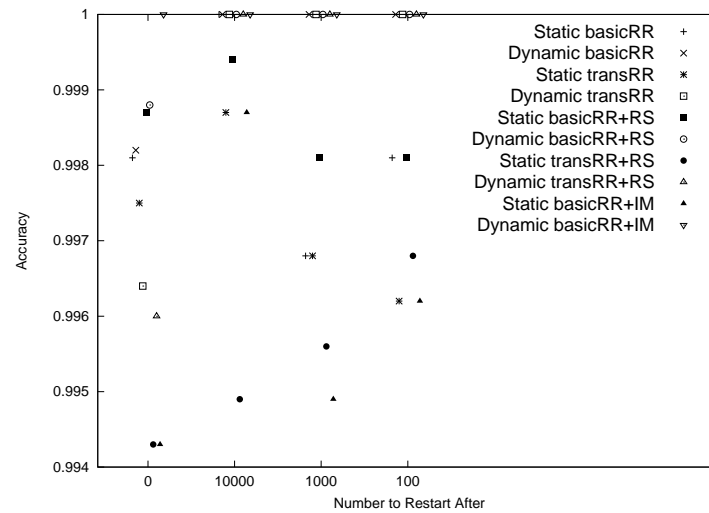


Figure B.291: Comparison of Best Results Between First and Second Set of Experiments on Instance f50_315

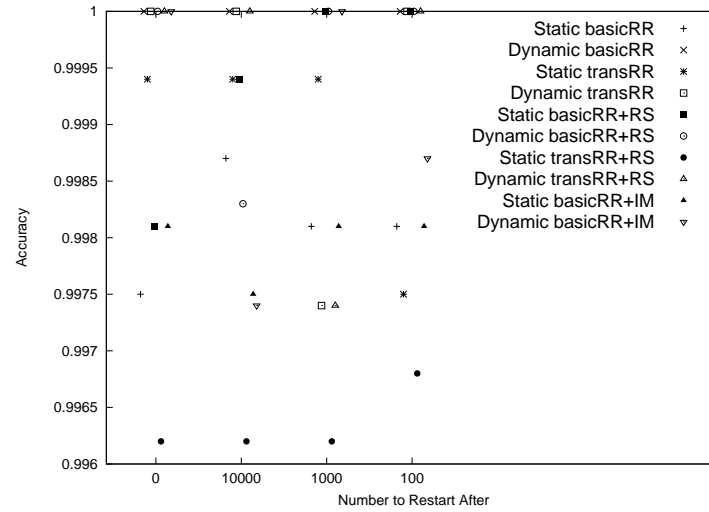


Figure B.292: Comparison of Best Results Between First and Second Set of Experiments on Instance f50_412

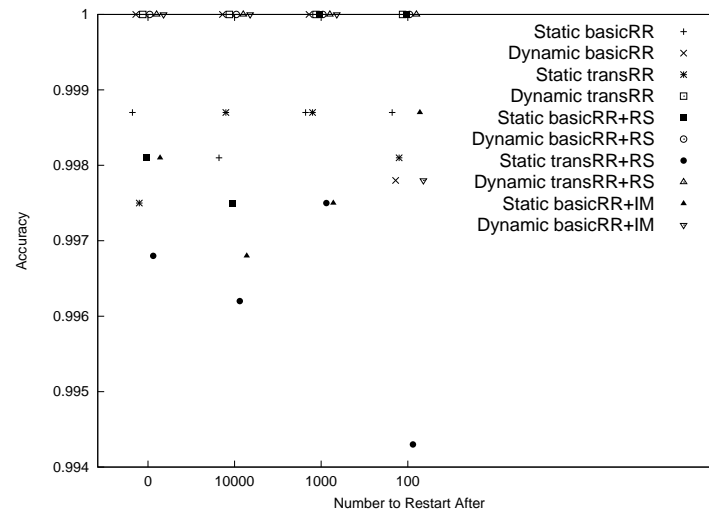


Figure B.293: Comparison of Best Results Between First and Second Set of Experiments on Instance f50_498

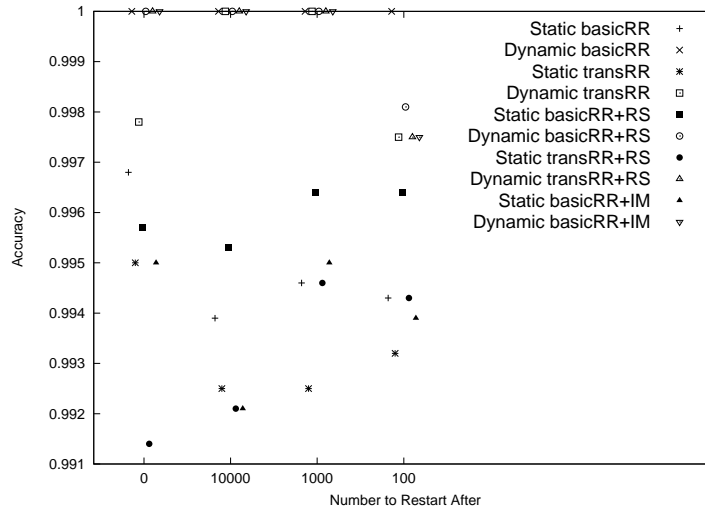


Figure B.294: Comparison of Best Results Between First and Second Set of Experiments on Instance f100_307

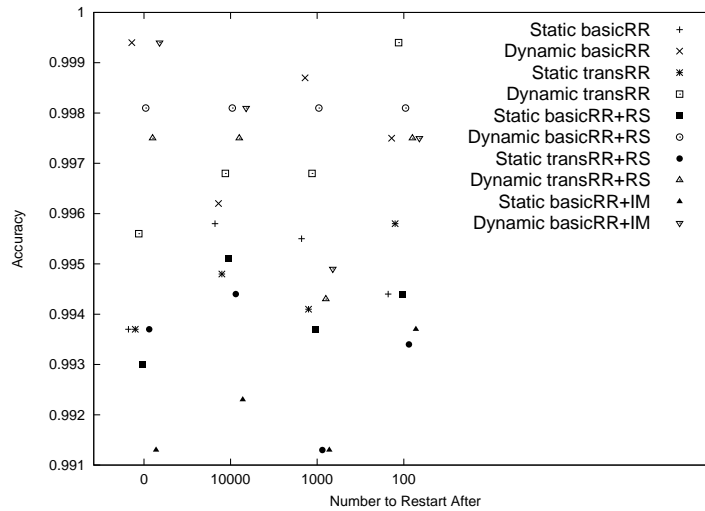


Figure B.295: Comparison of Best Results Between First and Second Set of Experiments on Instance f100_415

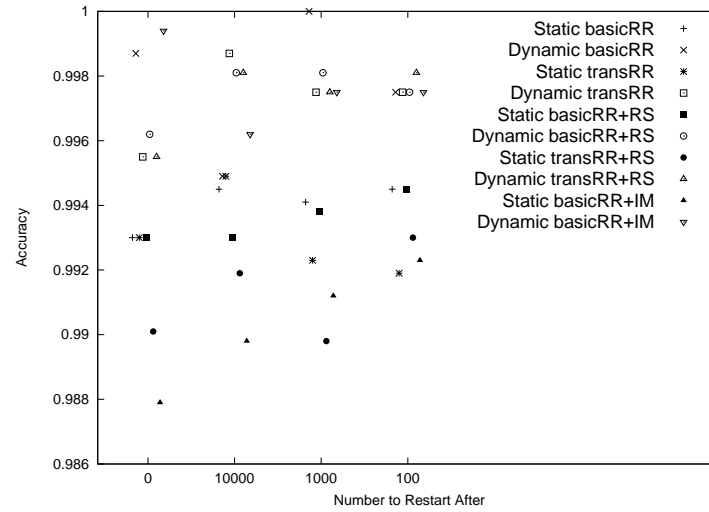


Figure B.296: Comparison of Best Results Between First and Second Set of Experiments on Instance f100_512

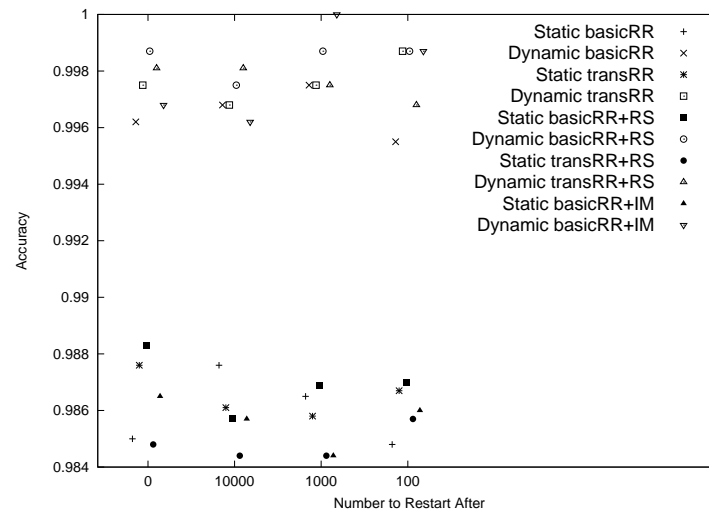


Figure B.297: Comparison of Best Results Between First and Second Set of Experiments on Instance f508_354

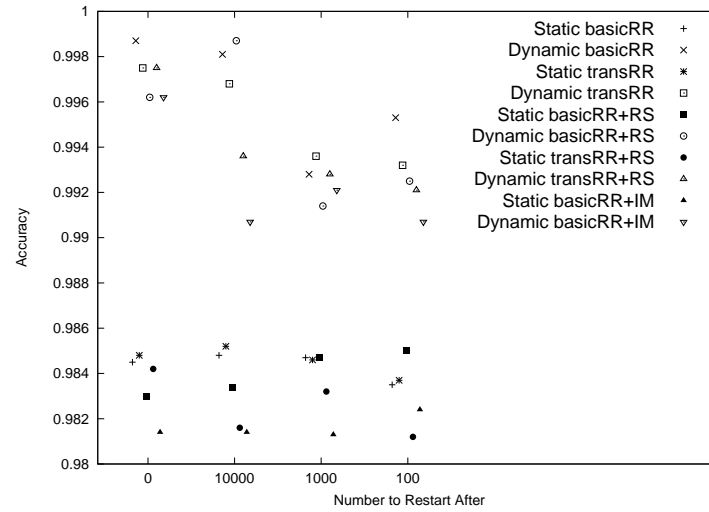


Figure B.298: Comparison of Best Results Between First and Second Set of Experiments on Instance f635_350

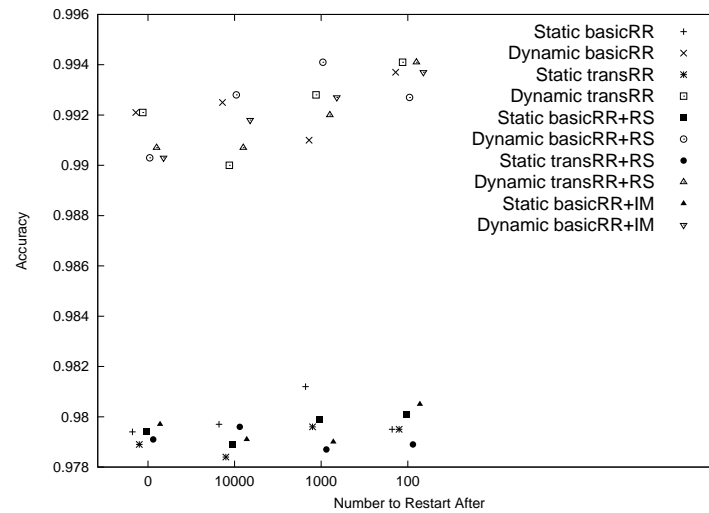


Figure B.299: Comparison of Best Results Between First and Second Set of Experiments on Instance f737_355

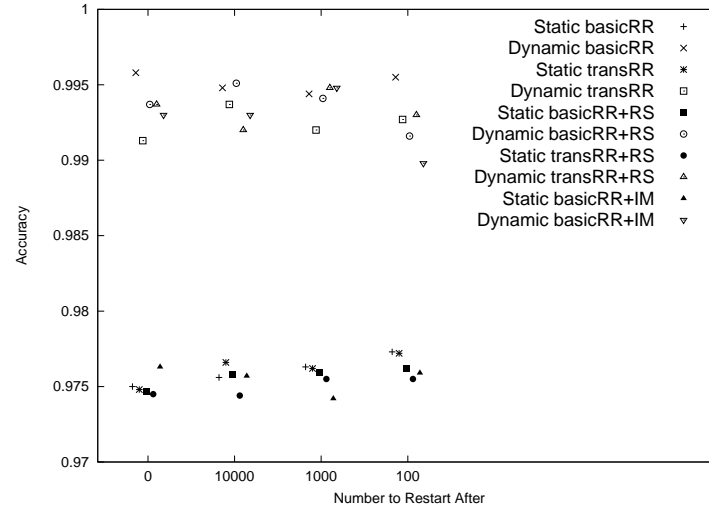


Figure B.300: Comparison of Best Results Between First and Second Set of Experiments on Instance f1343_354

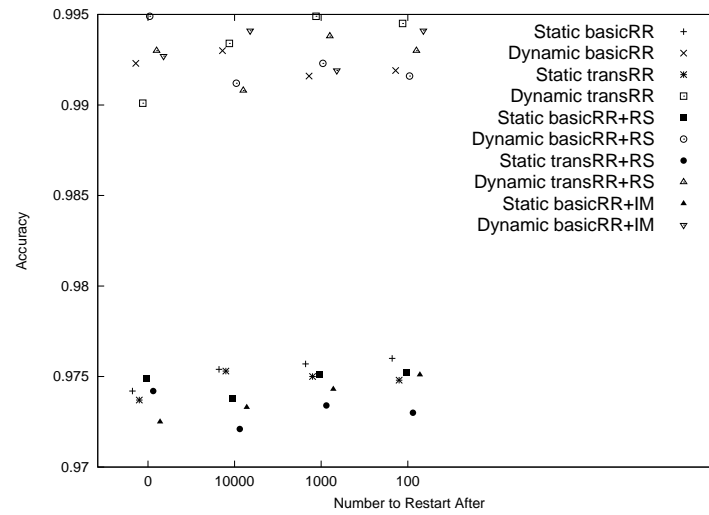


Figure B.301: Comparison of Best Results Between First and Second Set of Experiments on Instance f1577_354

Results With No Post Optimization and Forced Recentre

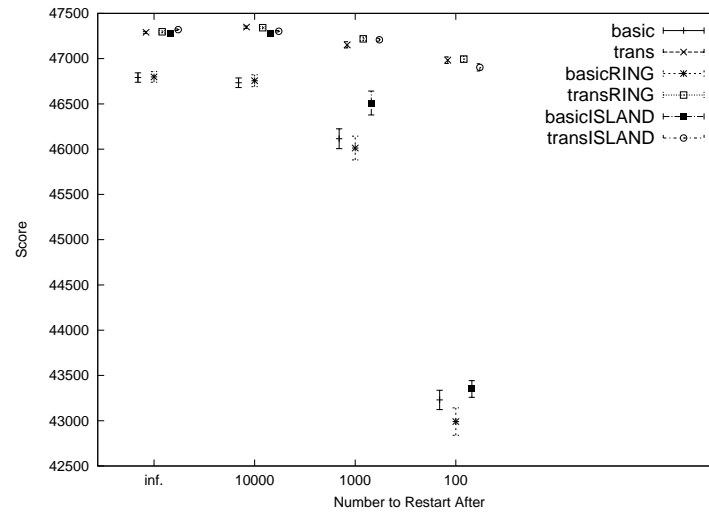


Figure B.302: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance acin1

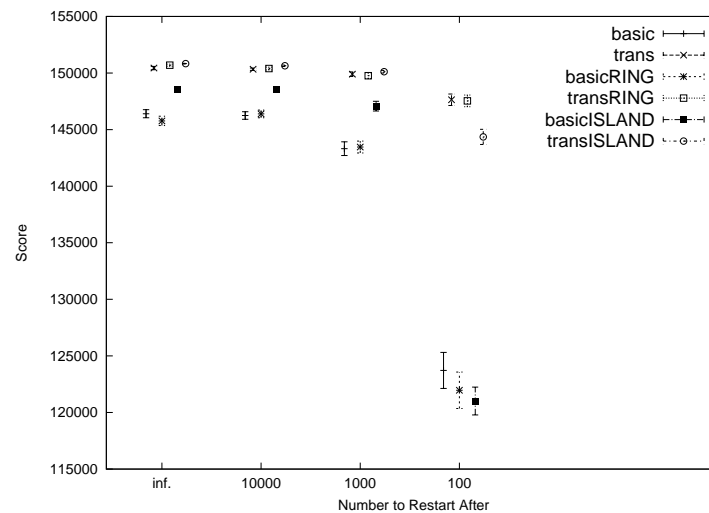


Figure B.303: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance acin2

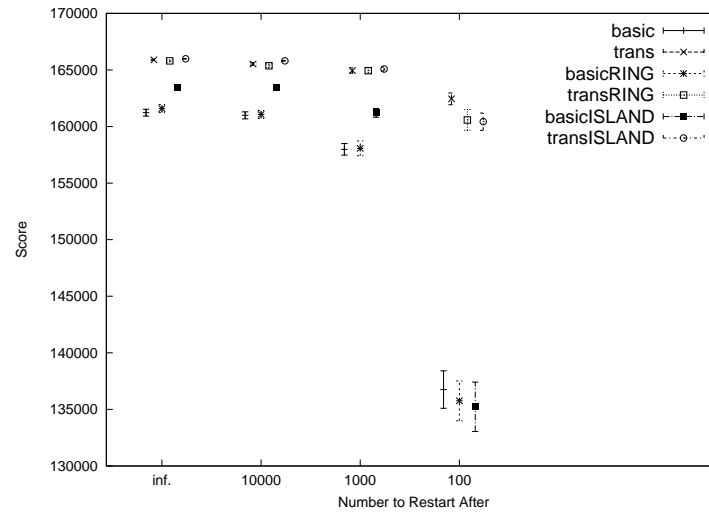


Figure B.304: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance acin3

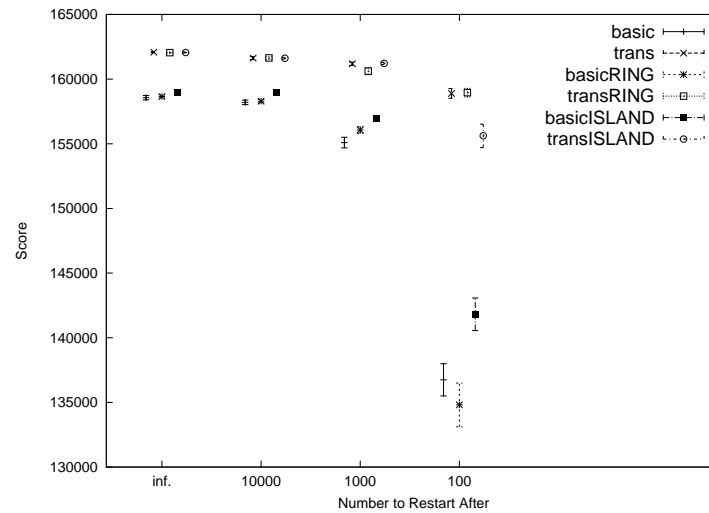


Figure B.305: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance acin5

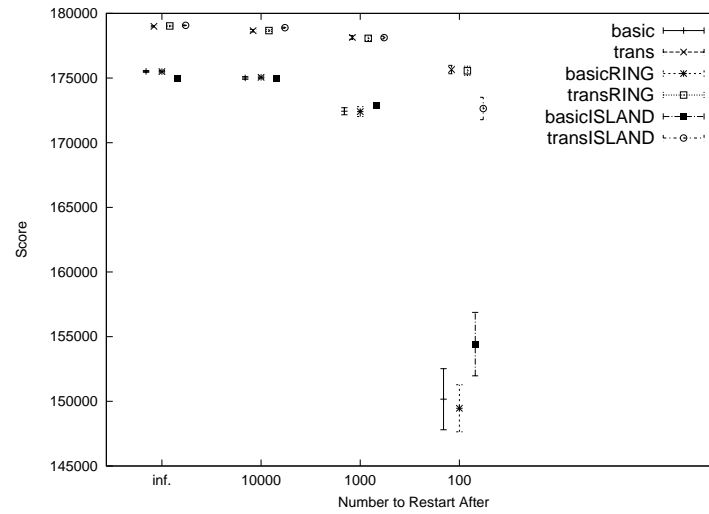


Figure B.306: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance acin7

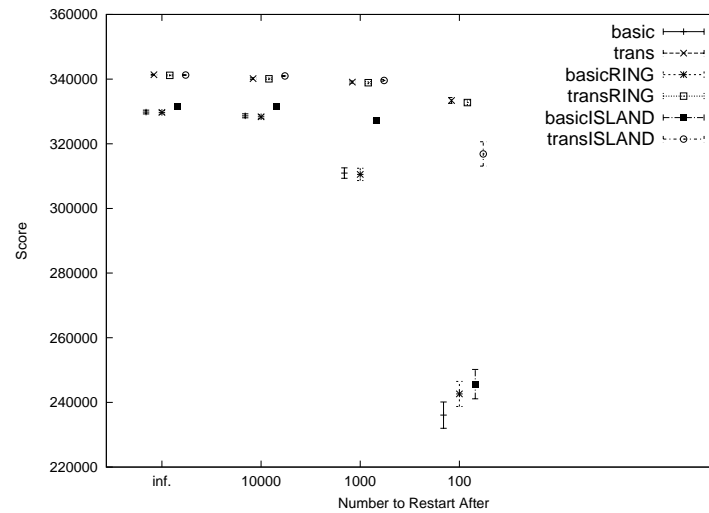


Figure B.307: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance acin9

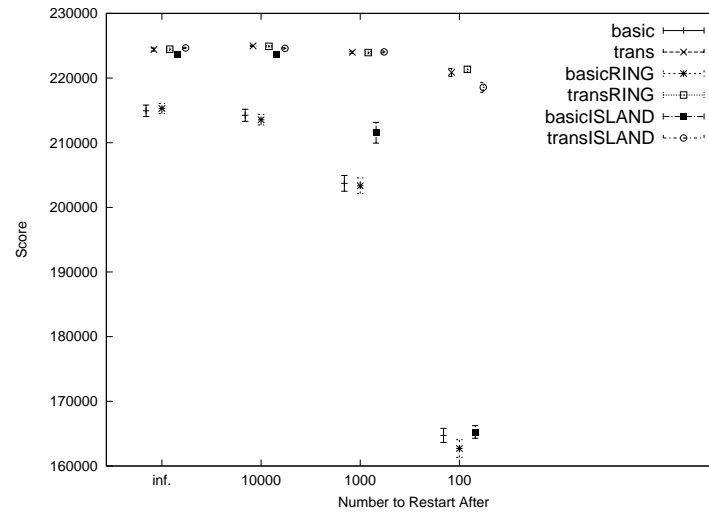


Figure B.308: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance bx842596_4

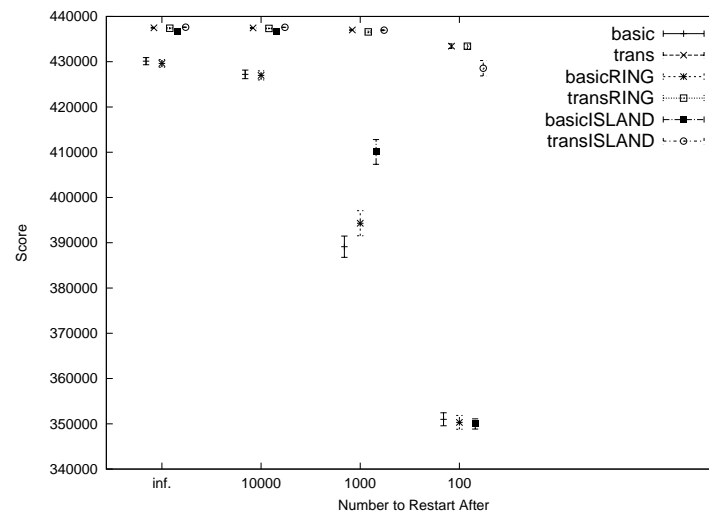


Figure B.309: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance bx842596_7

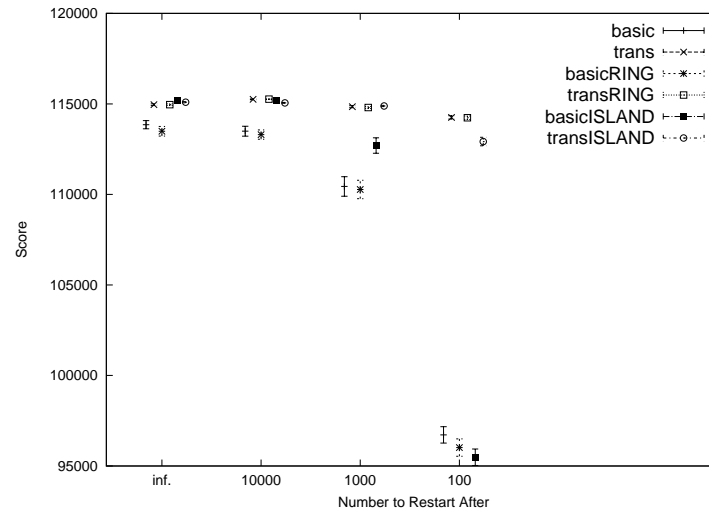


Figure B.310: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance j02459_7

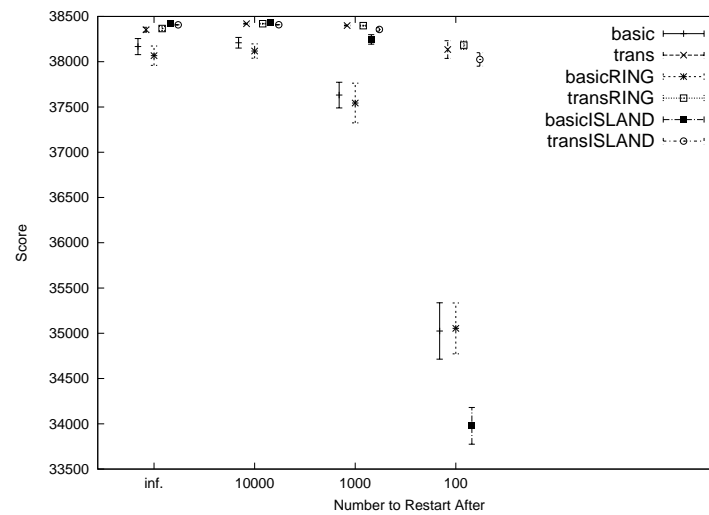


Figure B.311: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance m15421_5

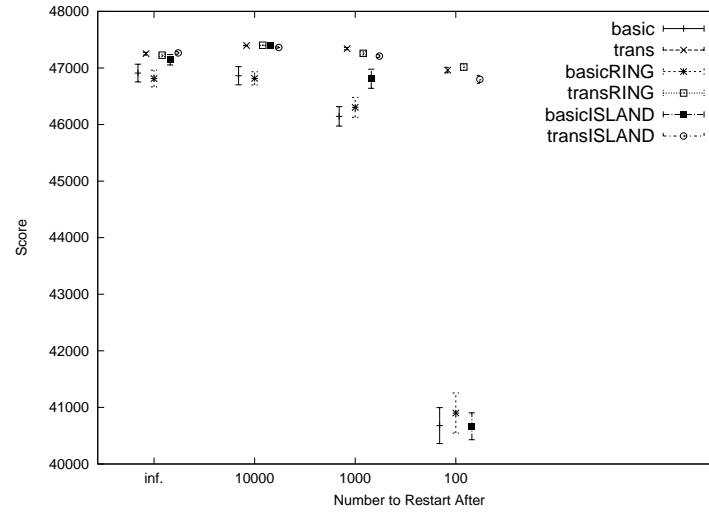


Figure B.312: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance m15421_6

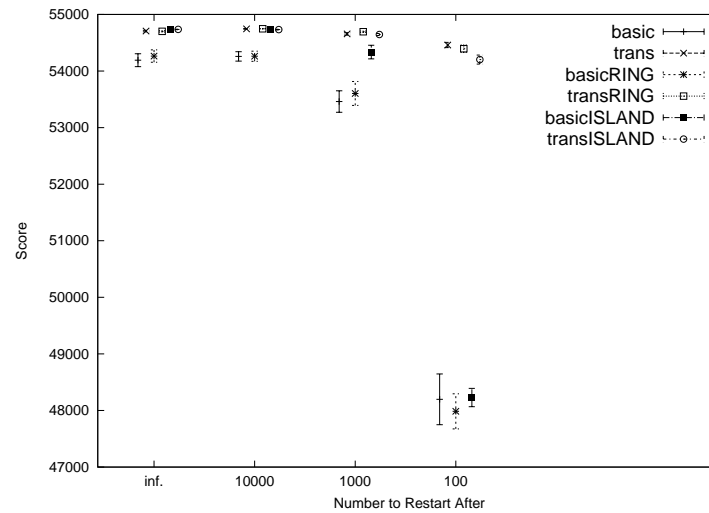


Figure B.313: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance m15421_7

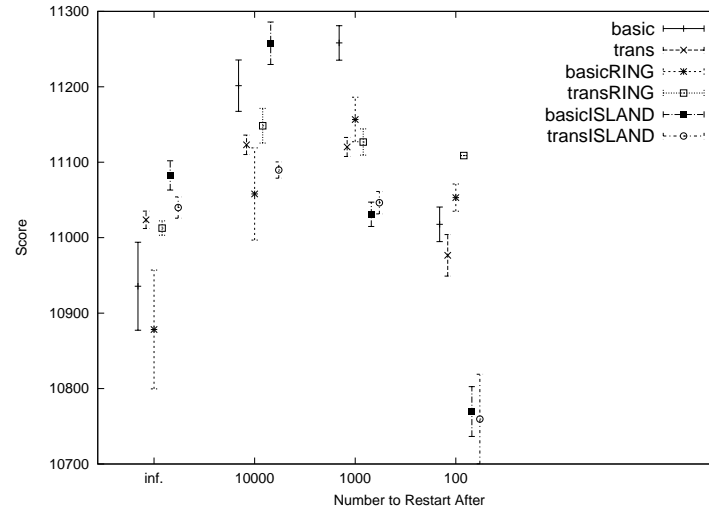


Figure B.314: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance x60189_4

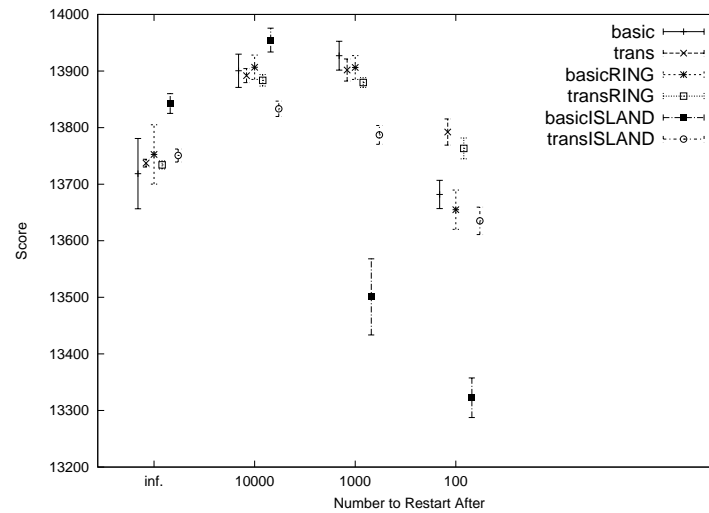


Figure B.315: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance x60189_5

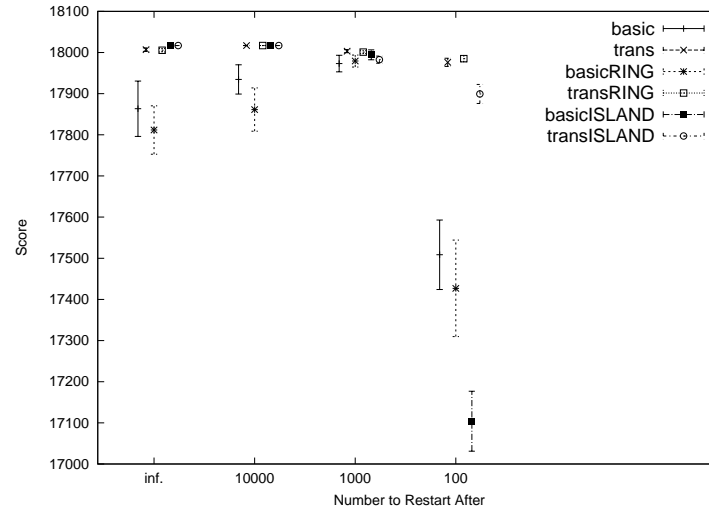


Figure B.316: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance x60189_6

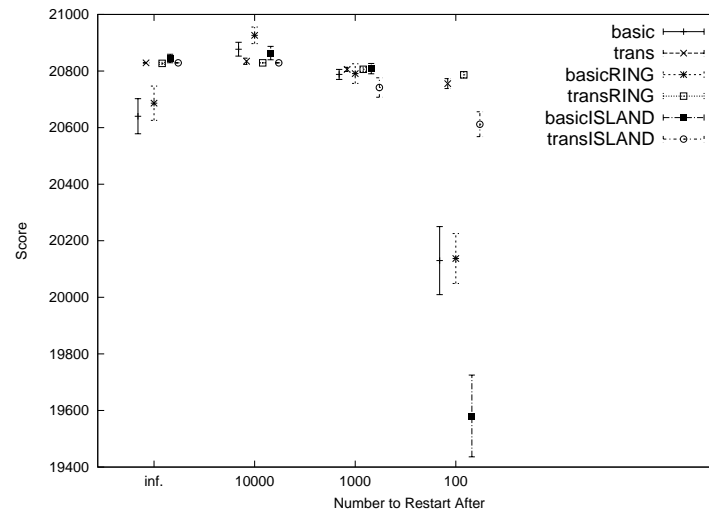


Figure B.317: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance x60189_7

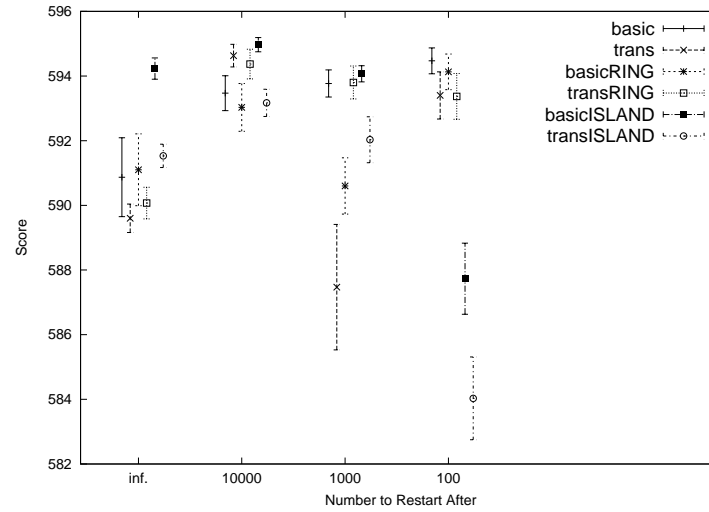


Figure B.318: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f25_305

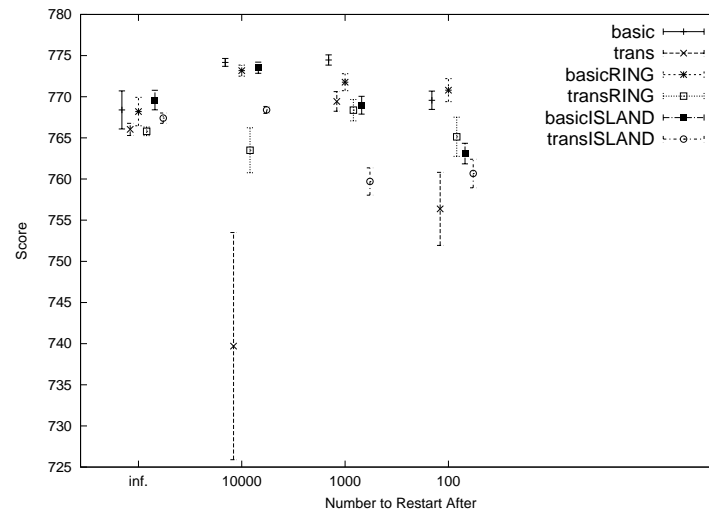


Figure B.319: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f25_400

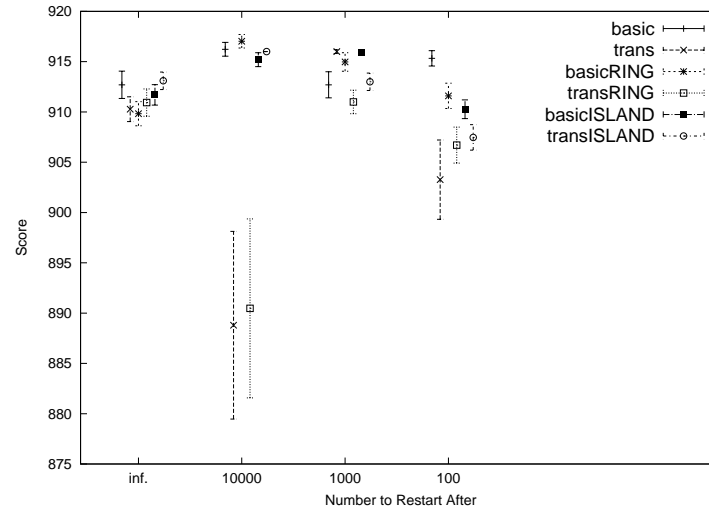


Figure B.320: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f25_500

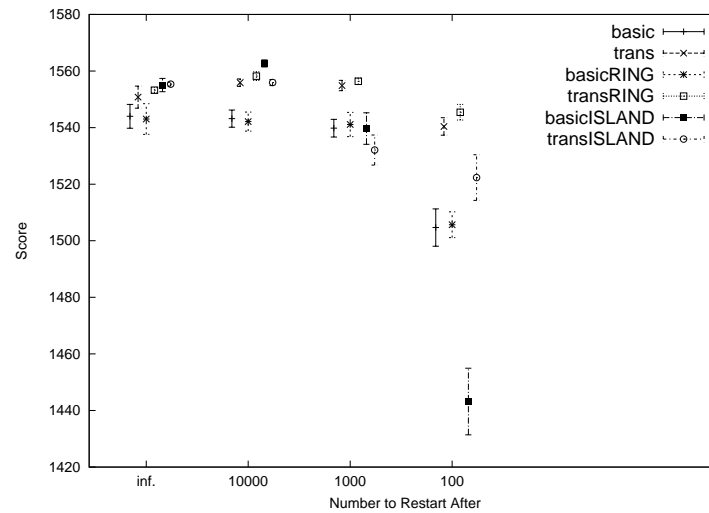


Figure B.321: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f50_315

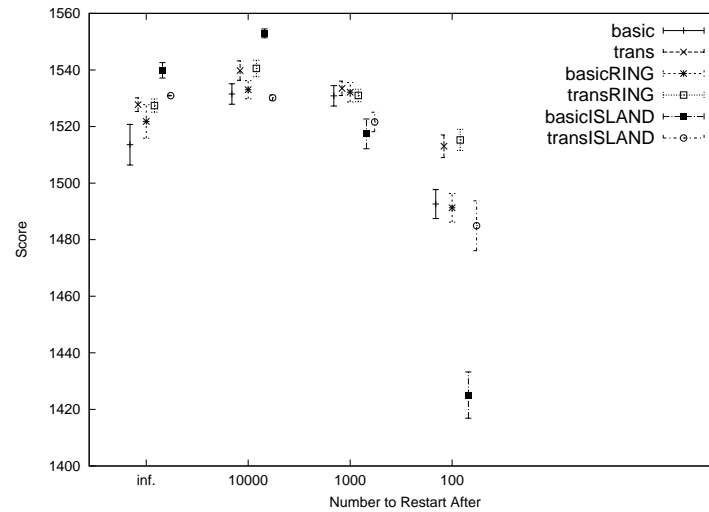


Figure B.322: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f50_412

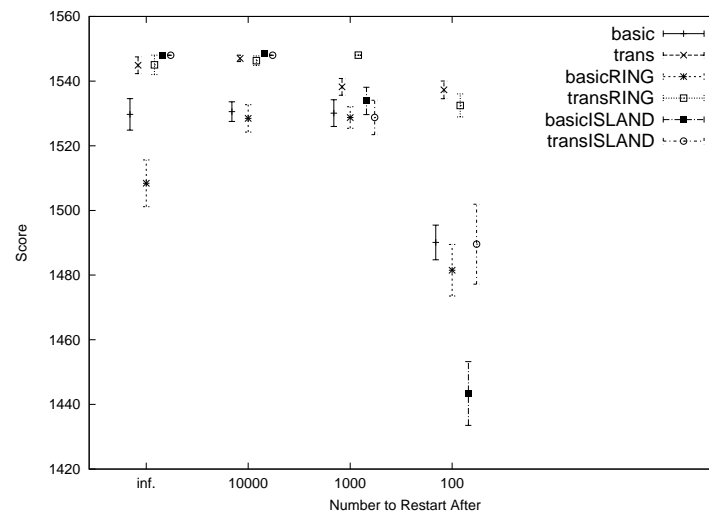


Figure B.323: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f50_498

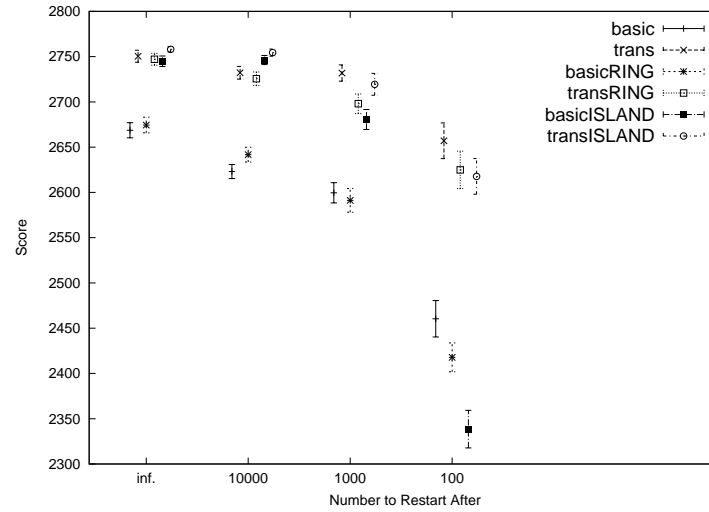


Figure B.324: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f100_307

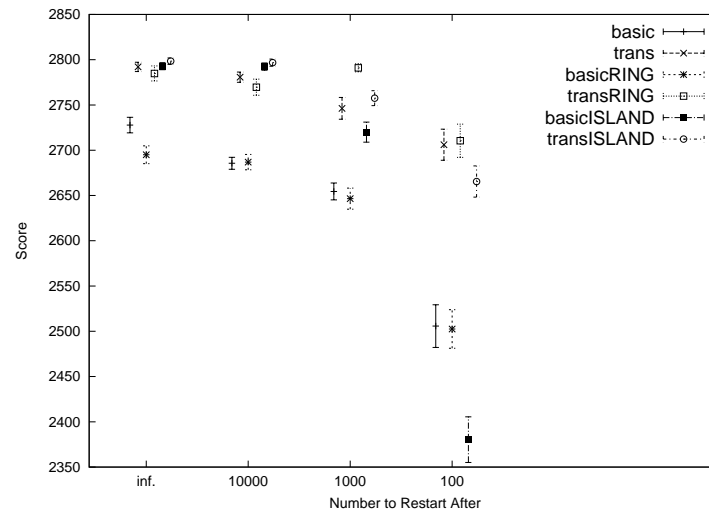


Figure B.325: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f100_415

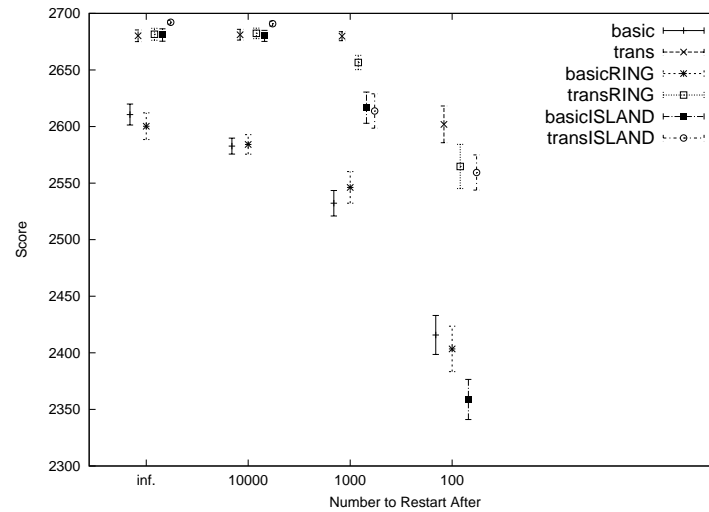


Figure B.326: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f100_512

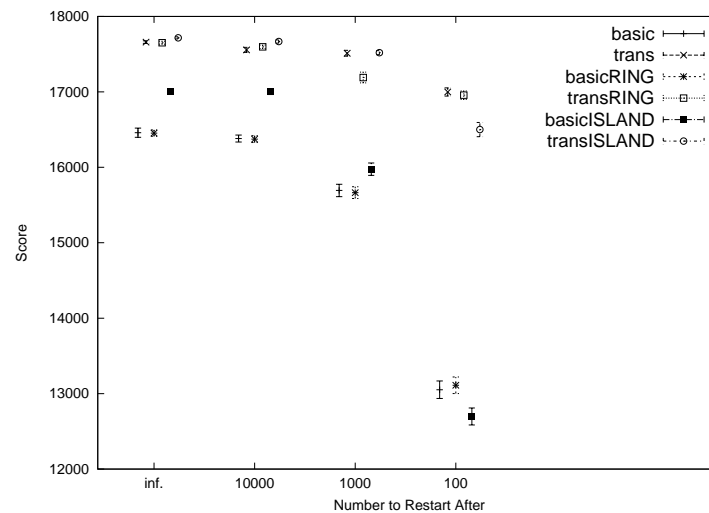


Figure B.327: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f508_354

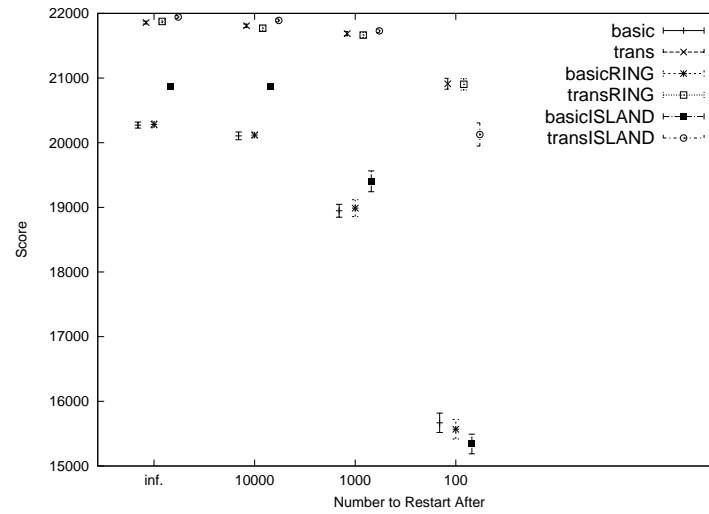


Figure B.328: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f635_350

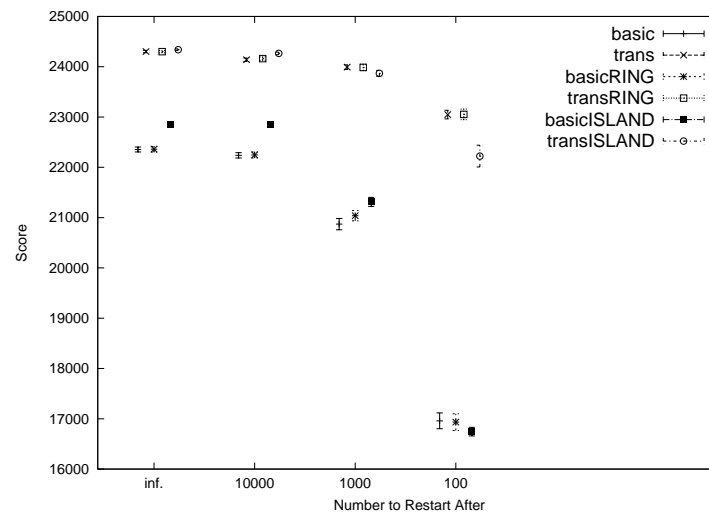


Figure B.329: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f737_355

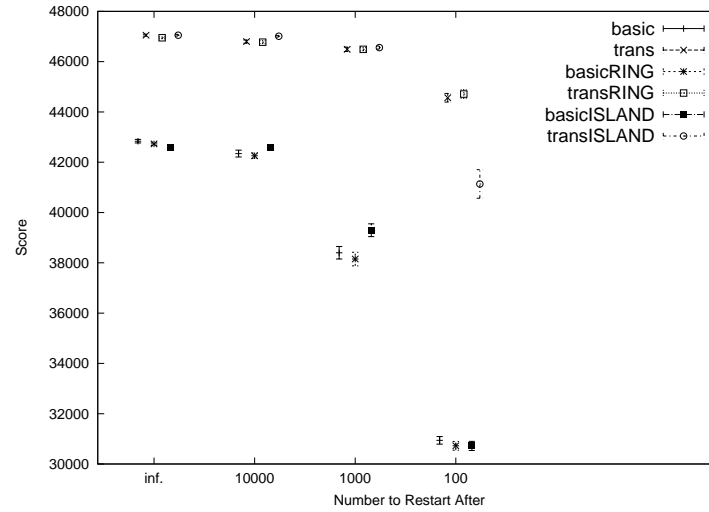


Figure B.330: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f1343_354

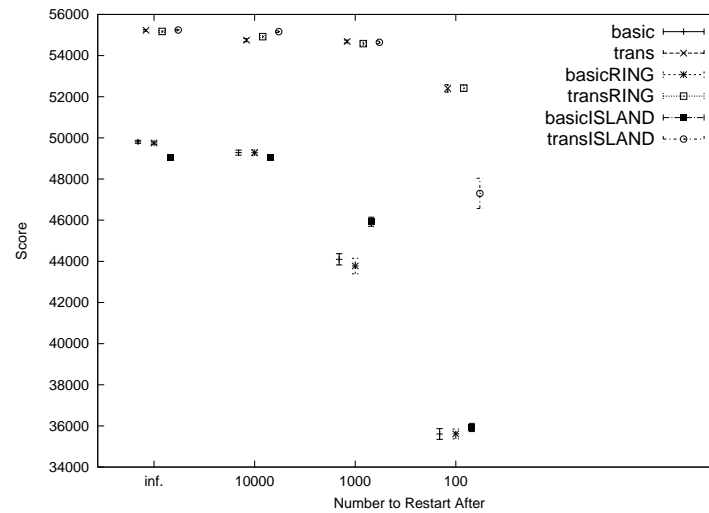


Figure B.331: Comparison of Best Results Between Algorithm Variations and Forced Recentre on Problem Instance f1577_354

Results With Post Optimization and Forced Recentre

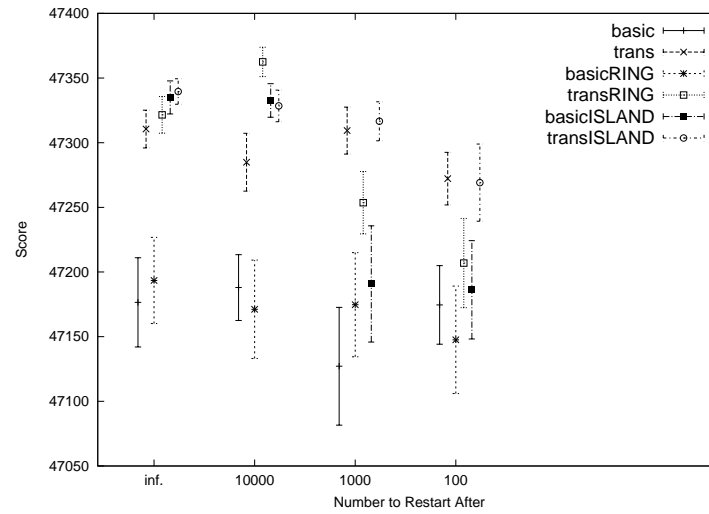


Figure B.332: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance acin1

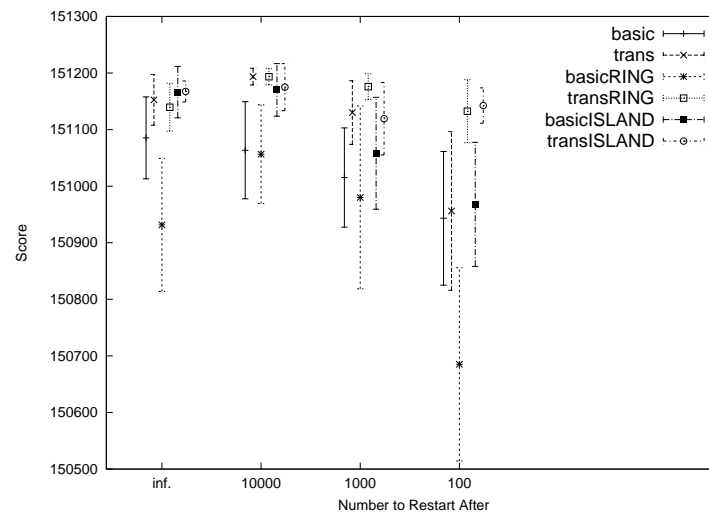


Figure B.333: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance acin2

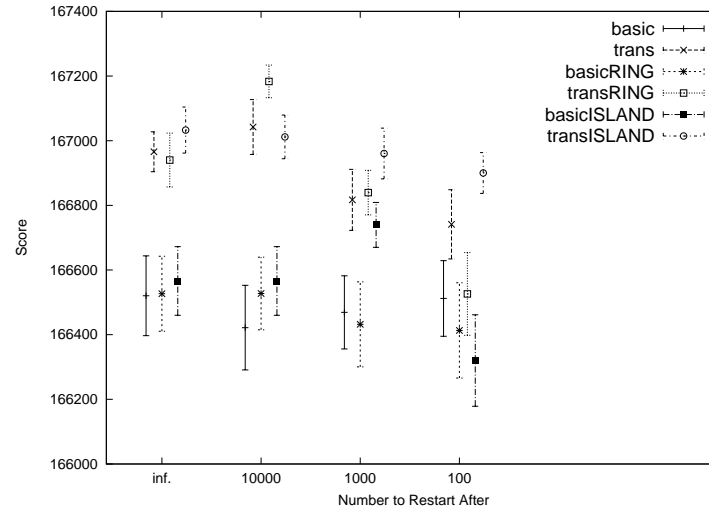


Figure B.334: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance acin3

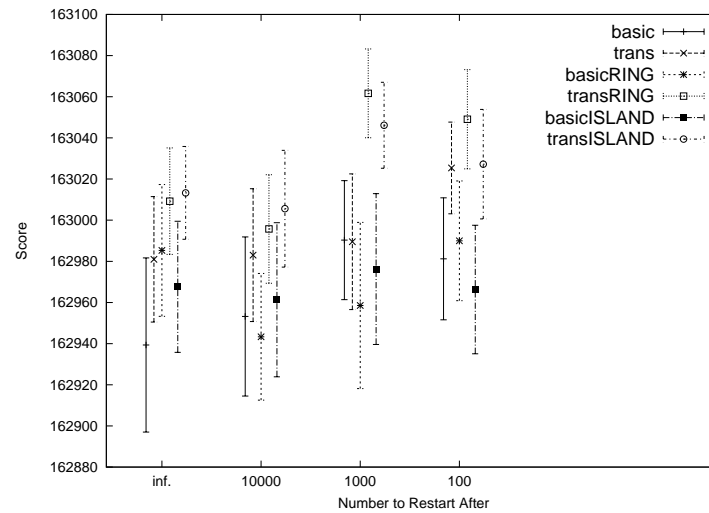


Figure B.335: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance acin5

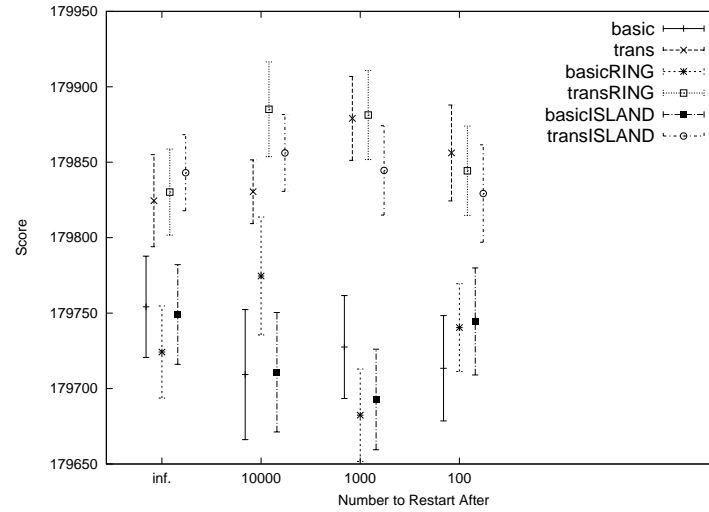


Figure B.336: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance acin7

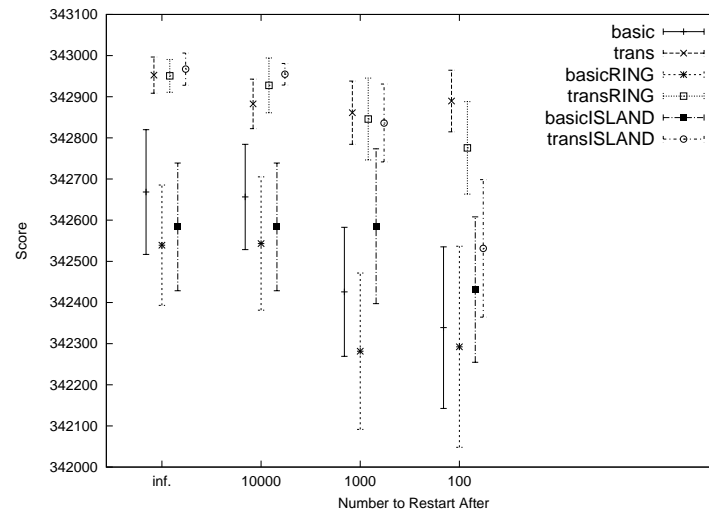


Figure B.337: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance acin9

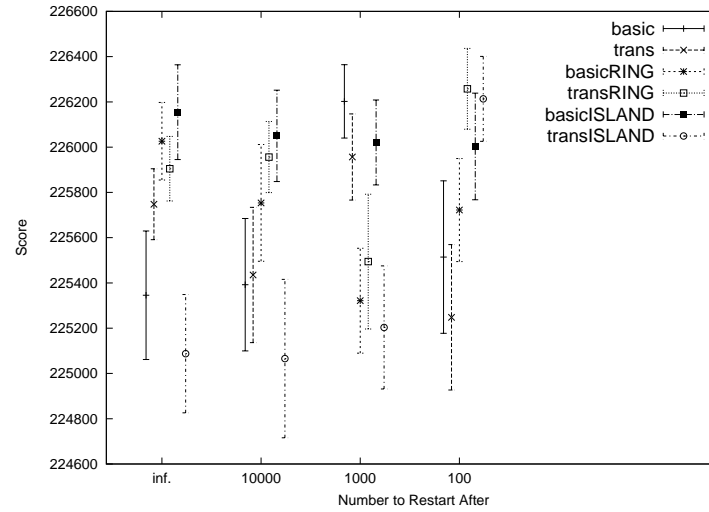


Figure B.338: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance bx842596_4

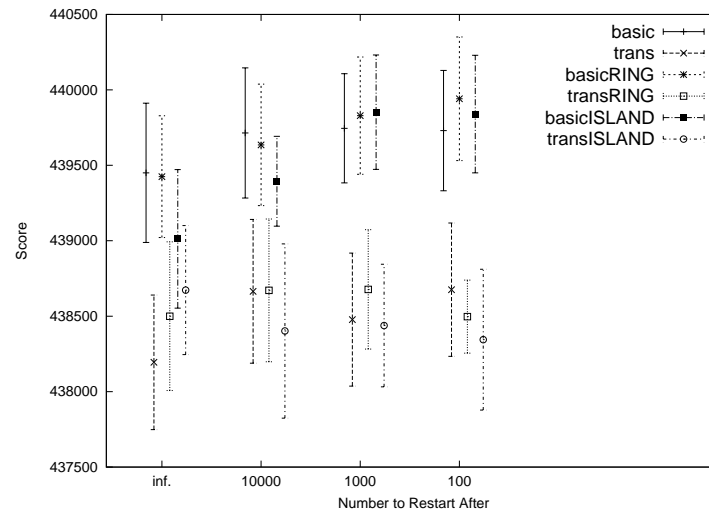


Figure B.339: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance bx842596_7

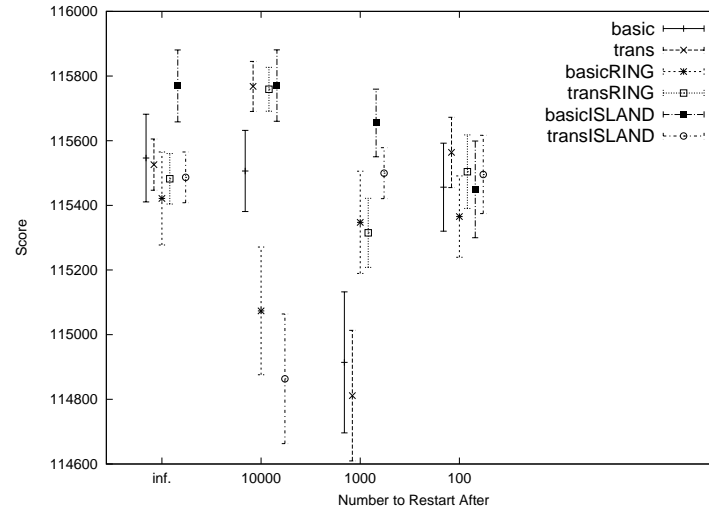


Figure B.340: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance j02459_7

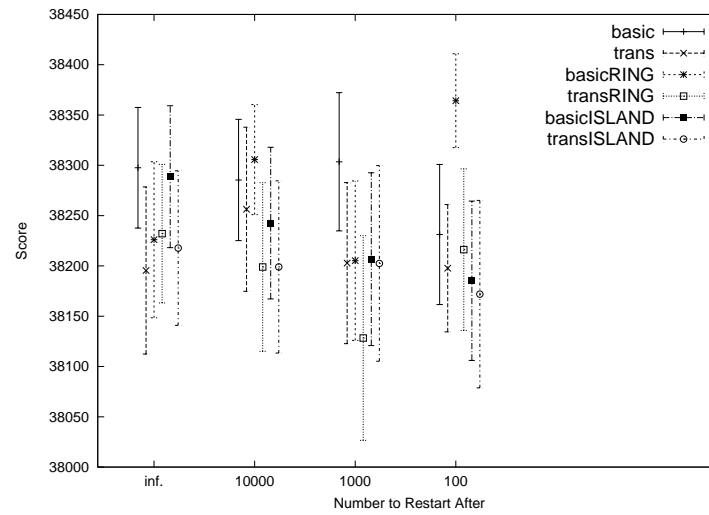


Figure B.341: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance m15421_5

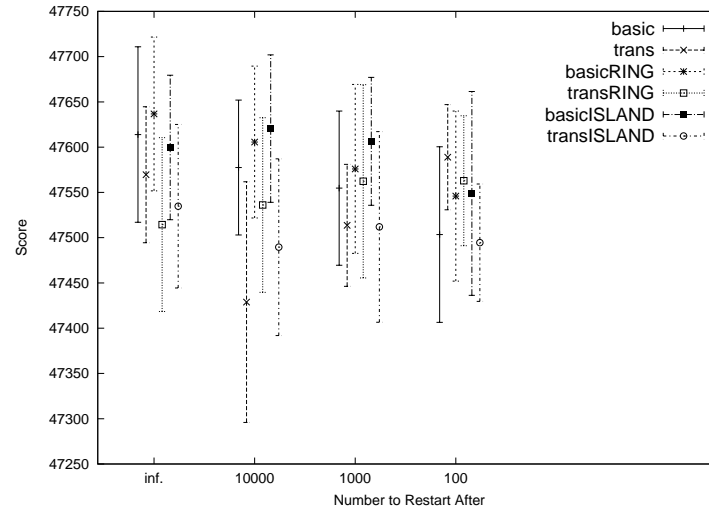


Figure B.342: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance m15421_6

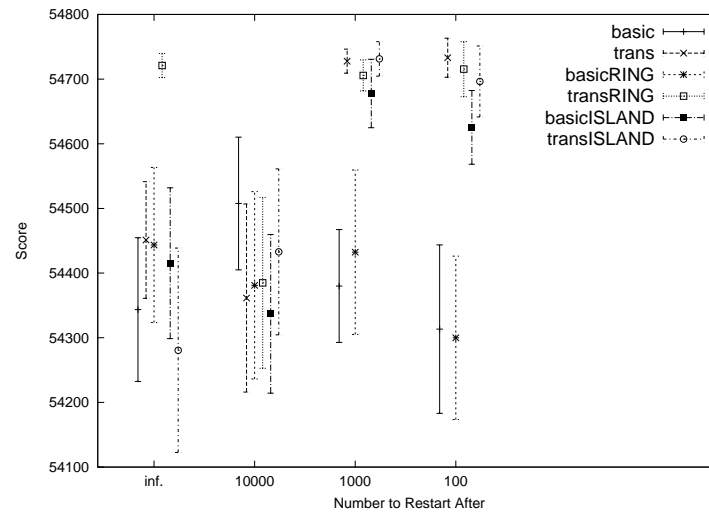


Figure B.343: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance m15421_7

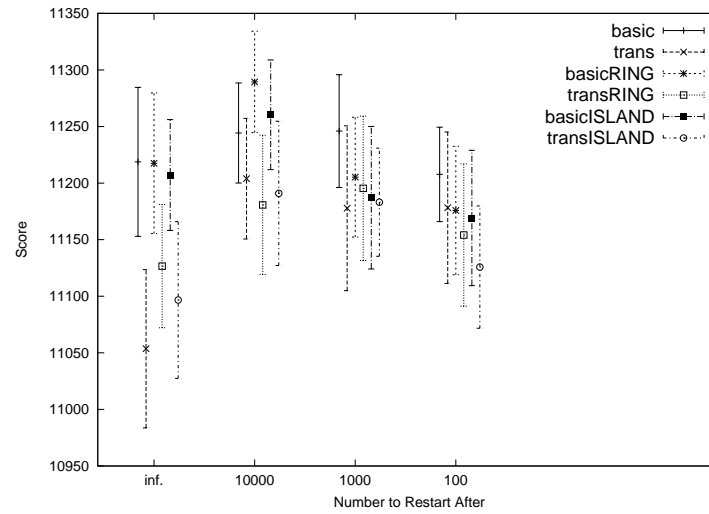


Figure B.344: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance x60189_4

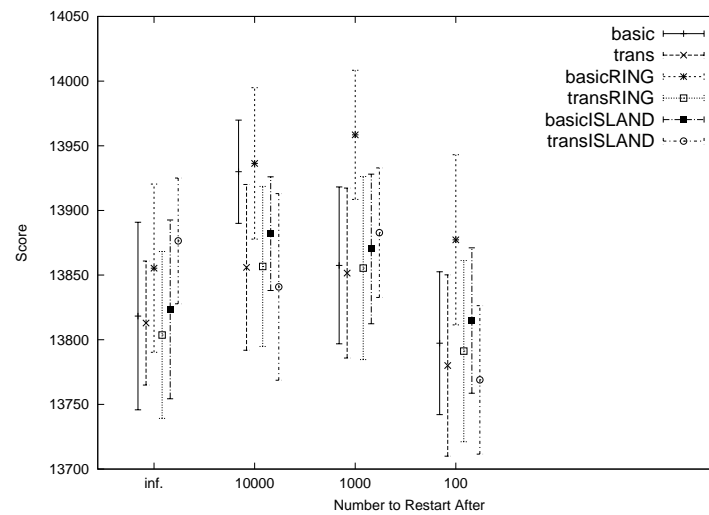


Figure B.345: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance x60189_5

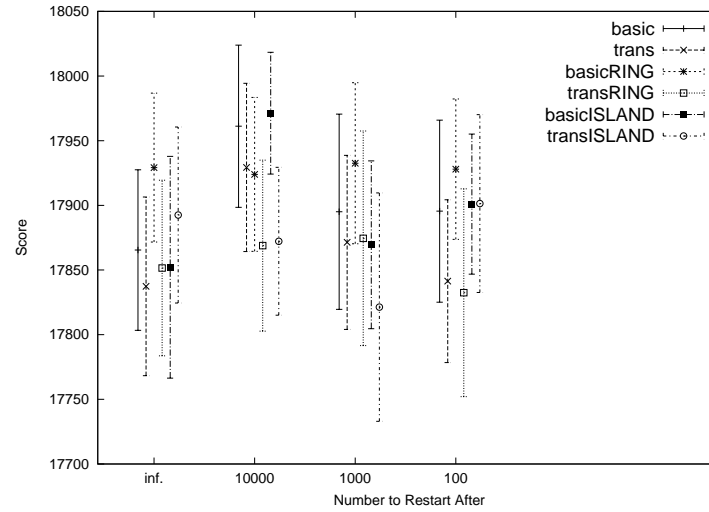


Figure B.346: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance x60189_6

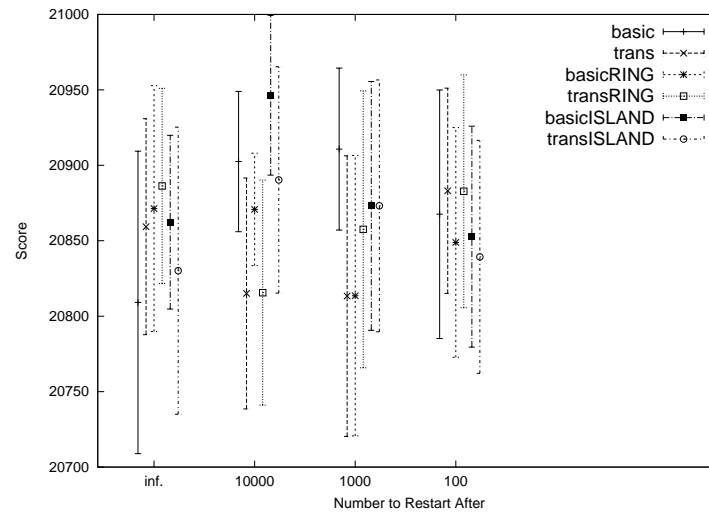


Figure B.347: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance x60189_7

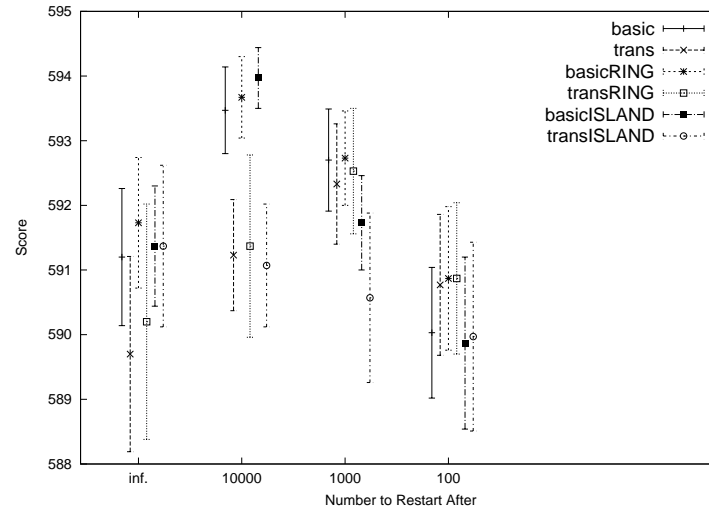


Figure B.348: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f25_305

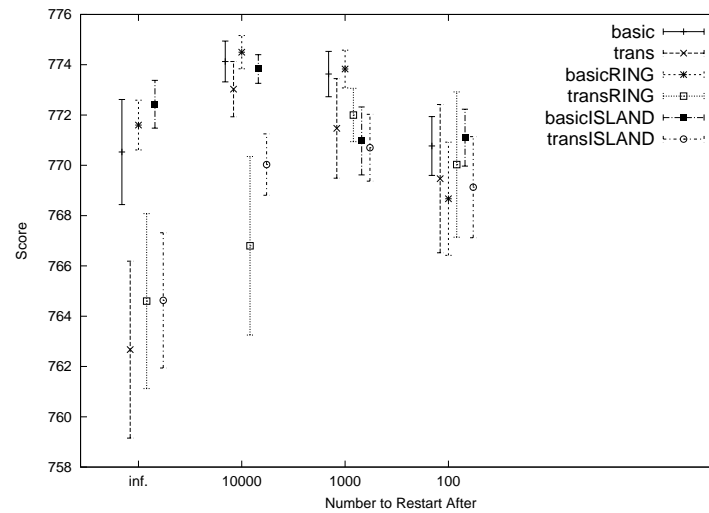


Figure B.349: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f25_400

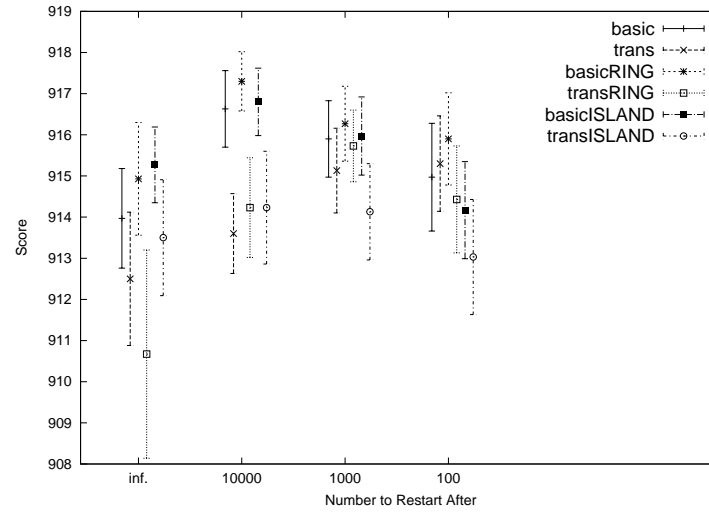


Figure B.350: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f25_500

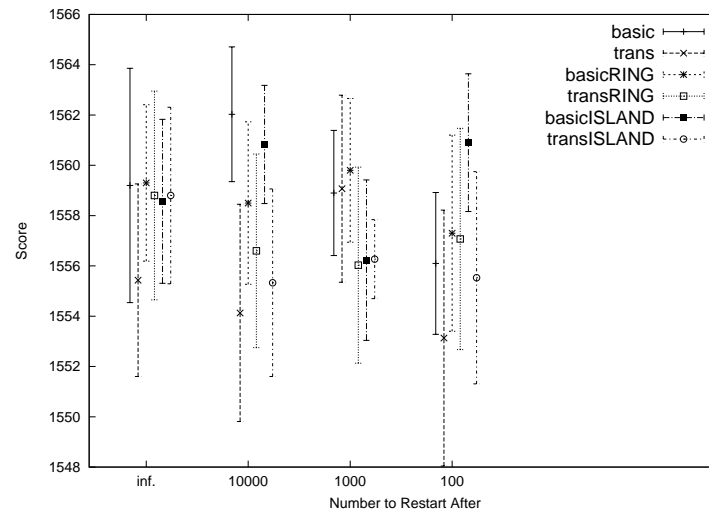


Figure B.351: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f50_315

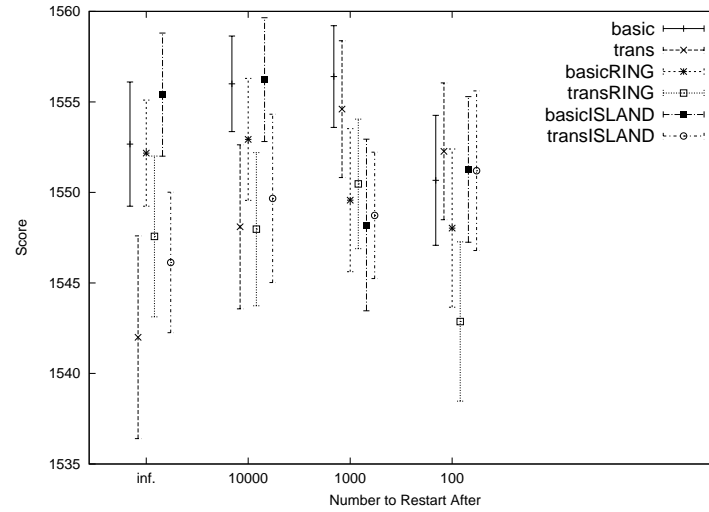


Figure B.352: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f50_412

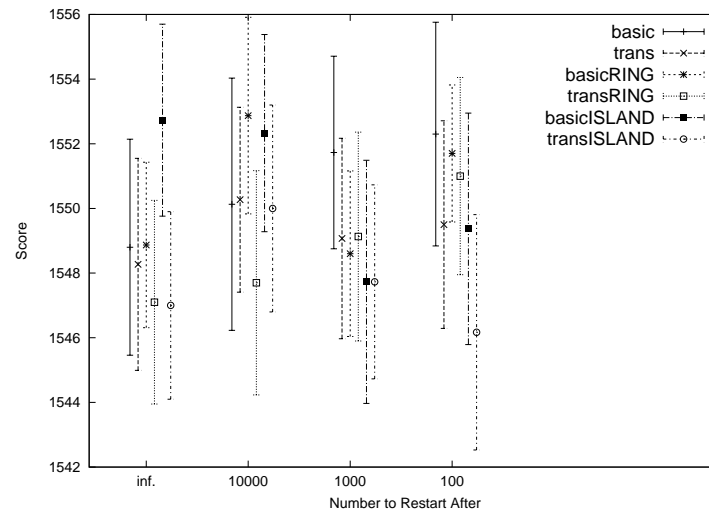


Figure B.353: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f50_498

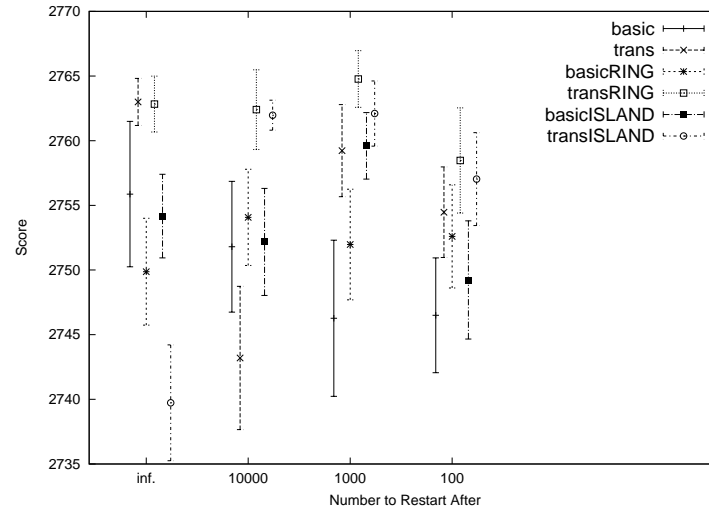


Figure B.354: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f100_307

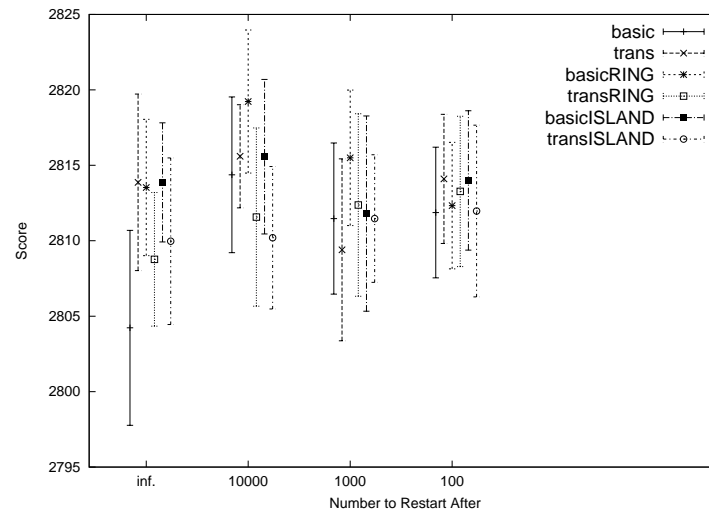


Figure B.355: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f100_415

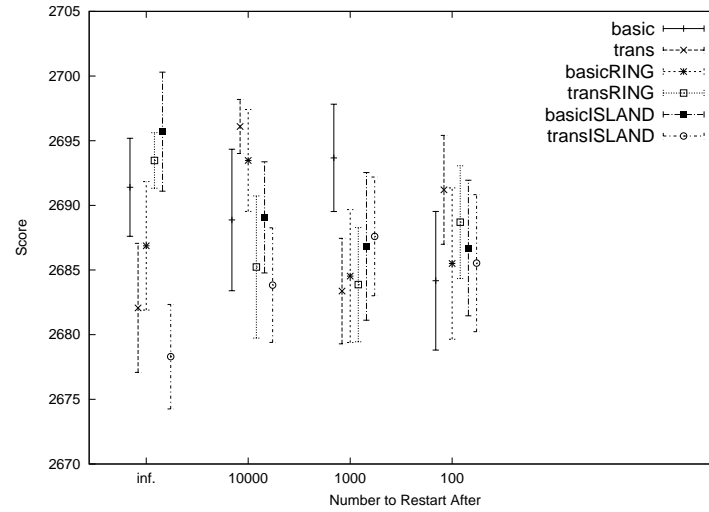


Figure B.356: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f100_512

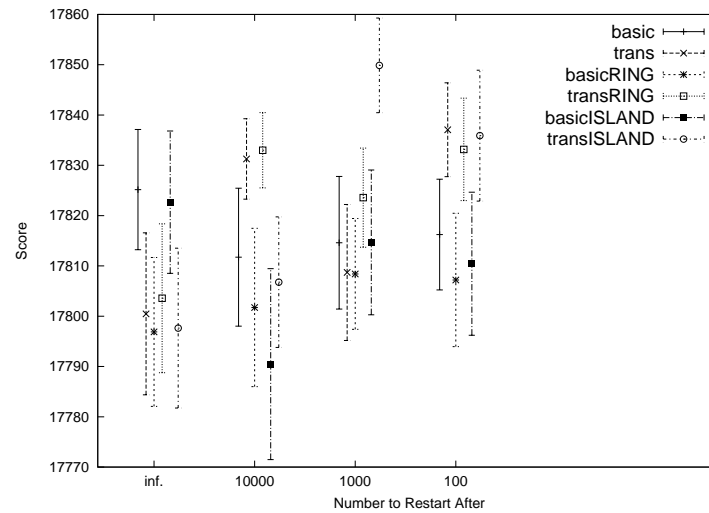


Figure B.357: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f508_354

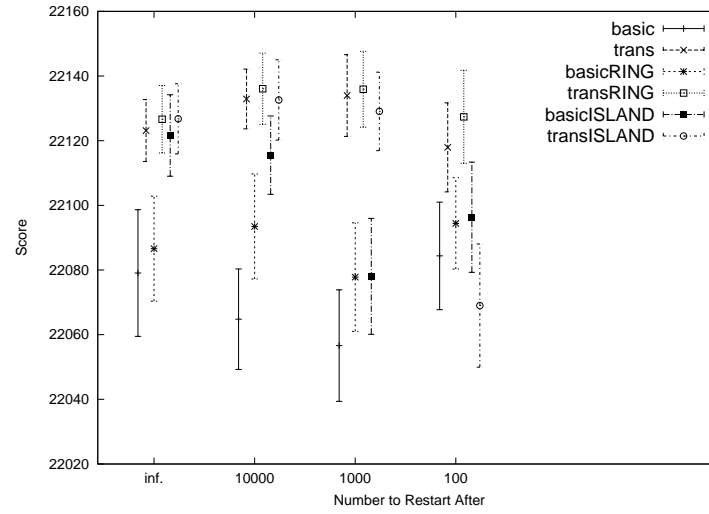


Figure B.358: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f635_350

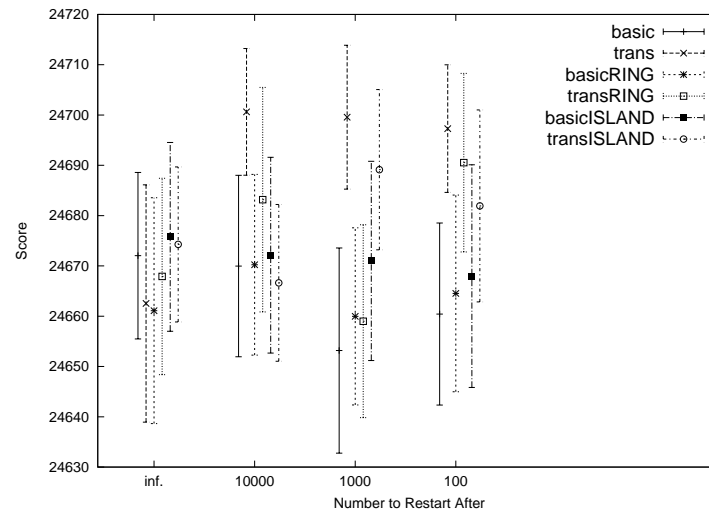


Figure B.359: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f737_355

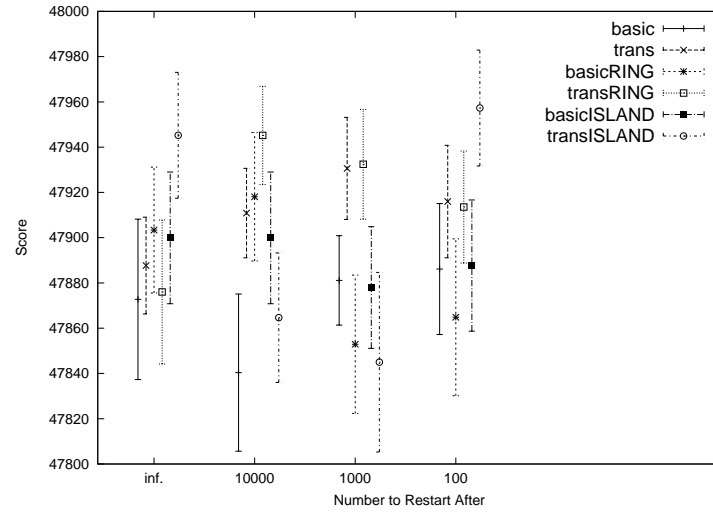


Figure B.360: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f1343_354

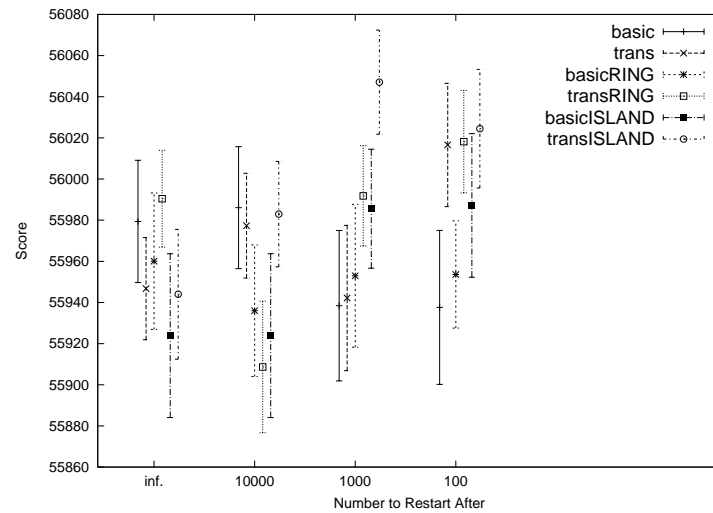


Figure B.361: Comparison of Best Results Between All Algorithm Variations and Forced Recentre on Problem Instance f1577_354

Comparison Between No Forced Recentre and Forced Recentre

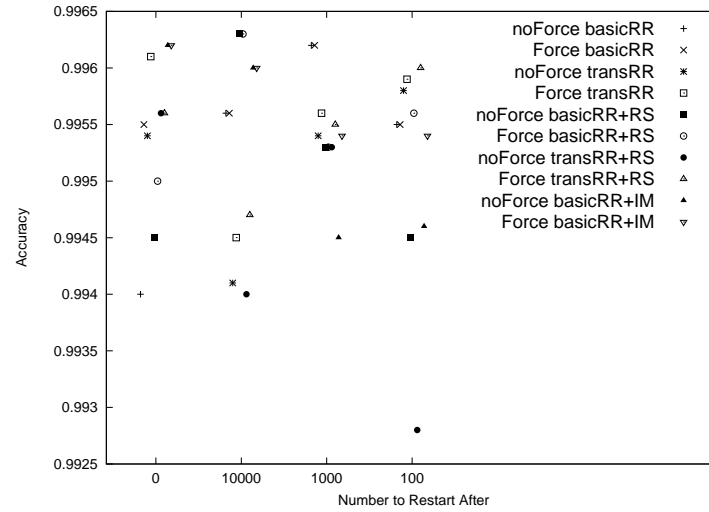


Figure B.362: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin1

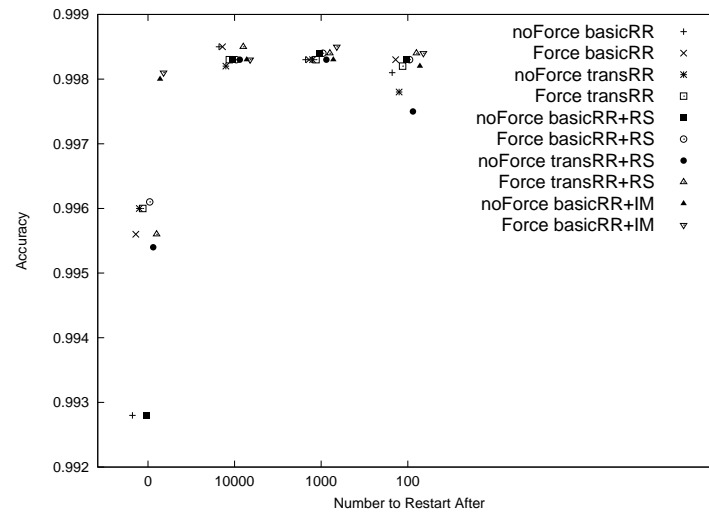


Figure B.363: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin2

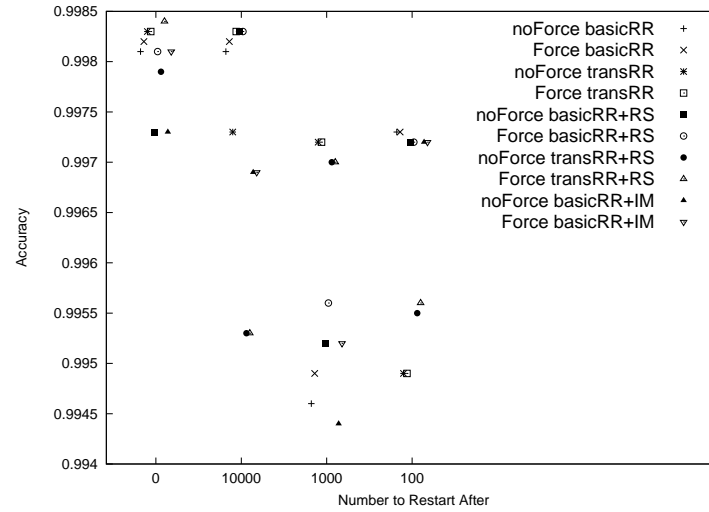


Figure B.364: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin3

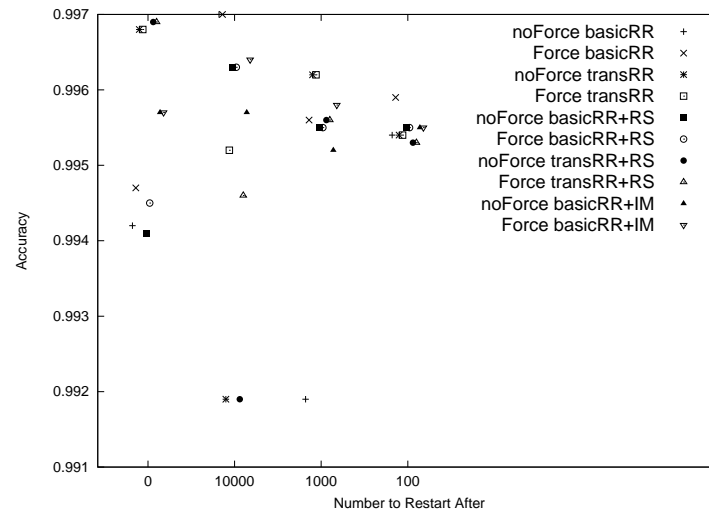


Figure B.365: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin5

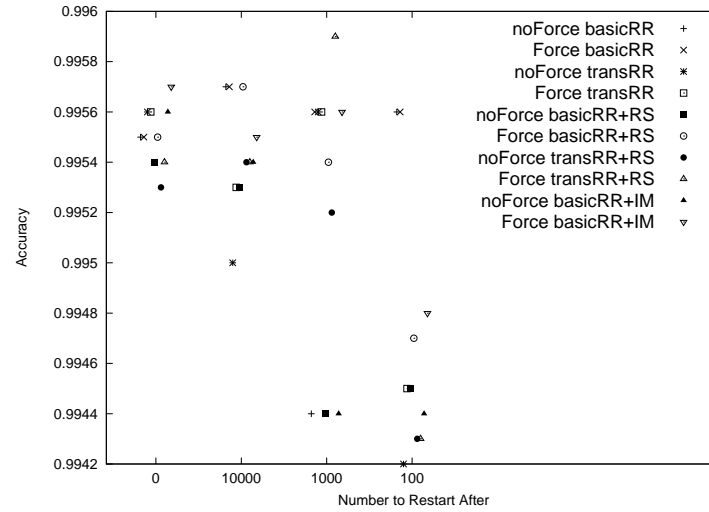


Figure B.366: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin7

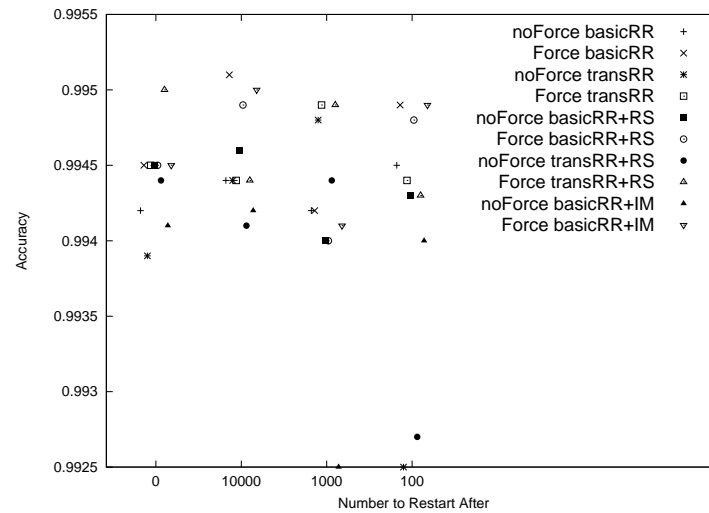


Figure B.367: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin9

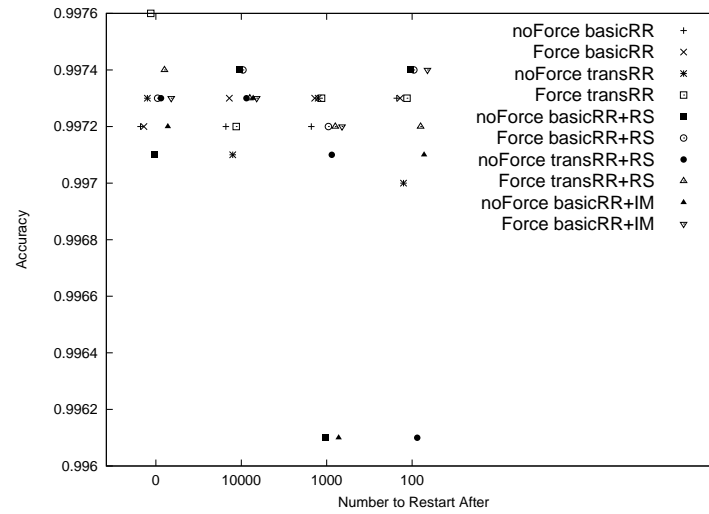


Figure B.368: Comparison of No Forced Recentre and Forced Recentre on Problem Instance bx842596_4

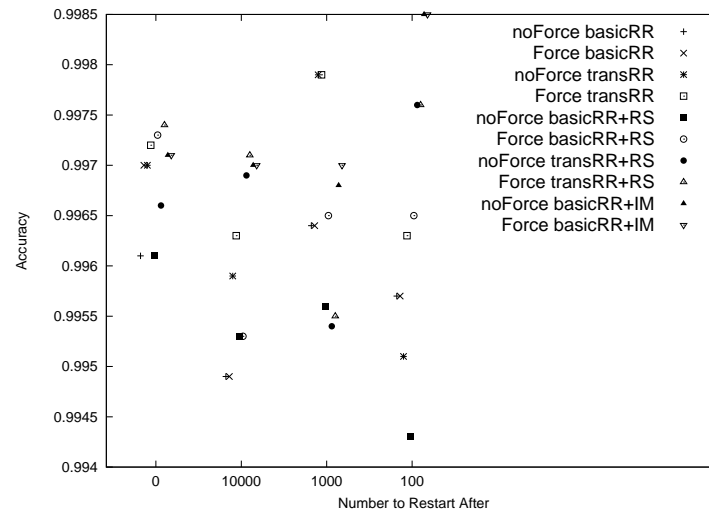


Figure B.369: Comparison of No Forced Recentre and Forced Recentre on Problem Instance bx842596_7

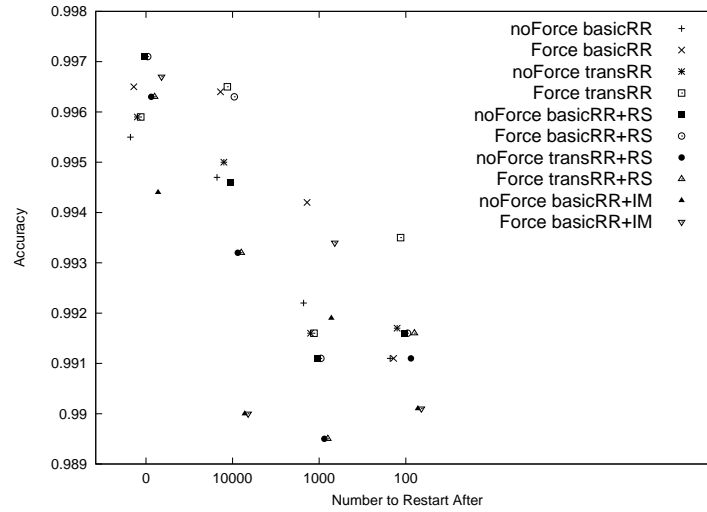


Figure B.370: Comparison of No Forced Recentre and Forced Recentre on Problem Instance j02459_7

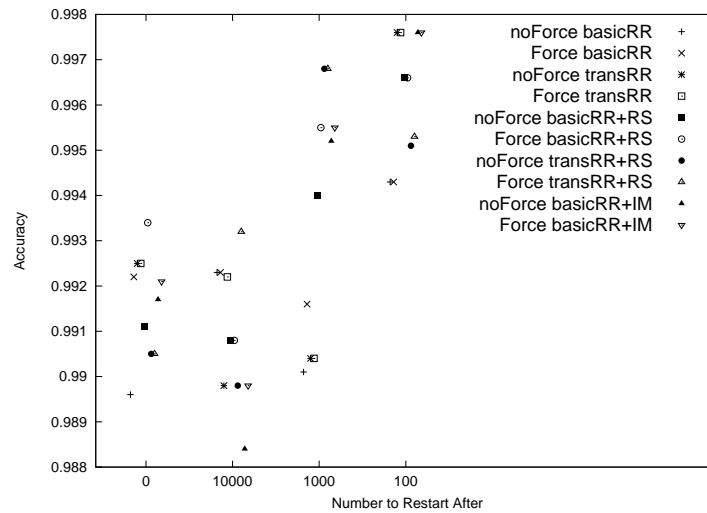


Figure B.371: Comparison of No Forced Recentre and Forced Recentre on Problem Instance m15421_5

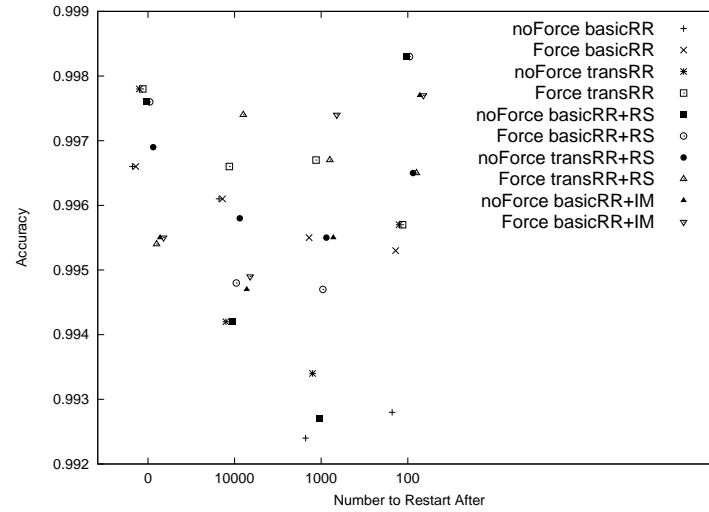


Figure B.372: Comparison of No Forced Recentre and Forced Recentre on Problem Instance m15421_6

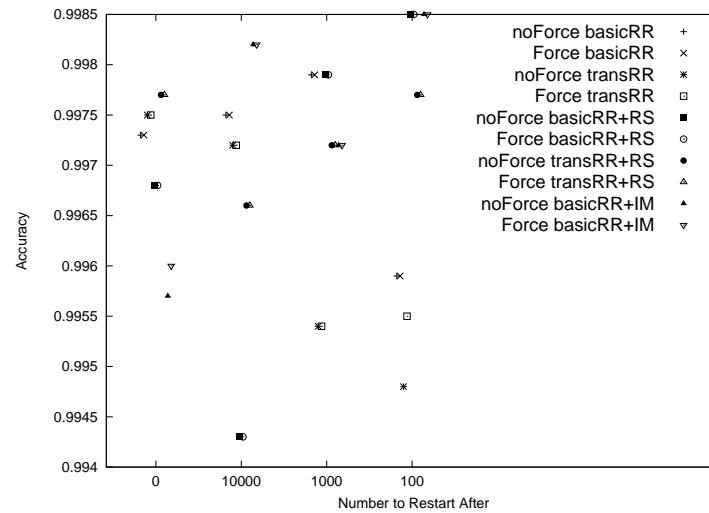


Figure B.373: Comparison of No Forced Recentre and Forced Recentre on Problem Instance m15421_7

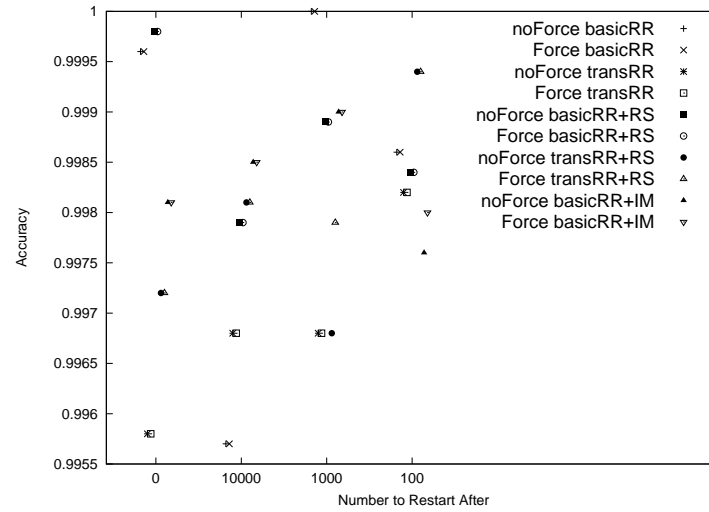


Figure B.374: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_4

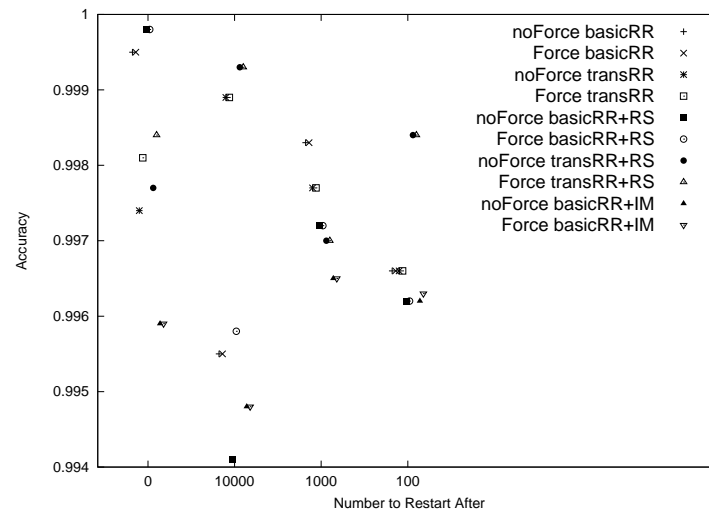


Figure B.375: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_5

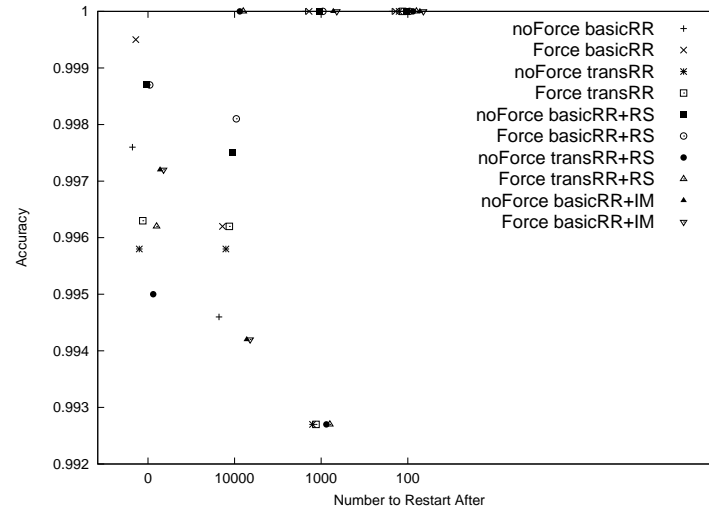


Figure B.376: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_6

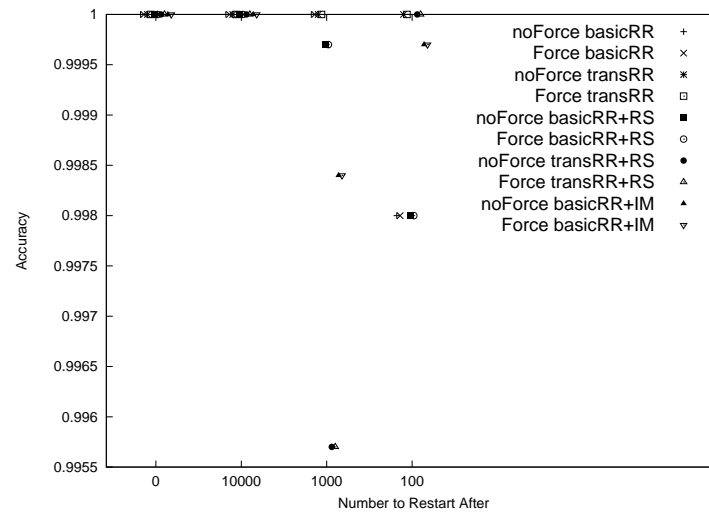


Figure B.377: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_7

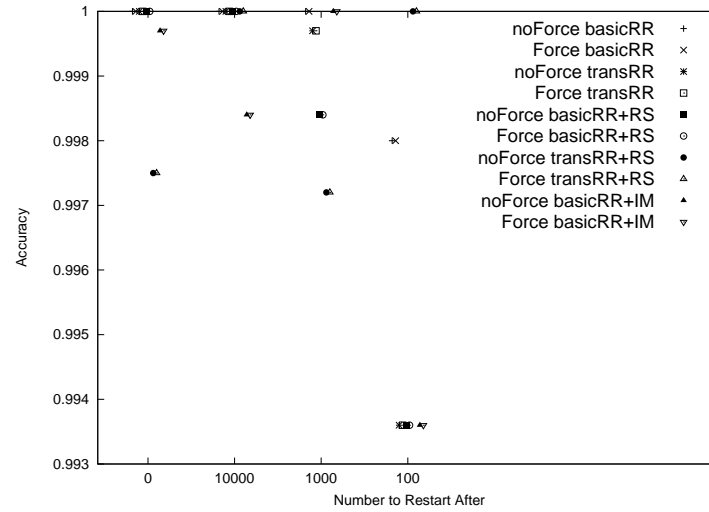


Figure B.378: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f25_305

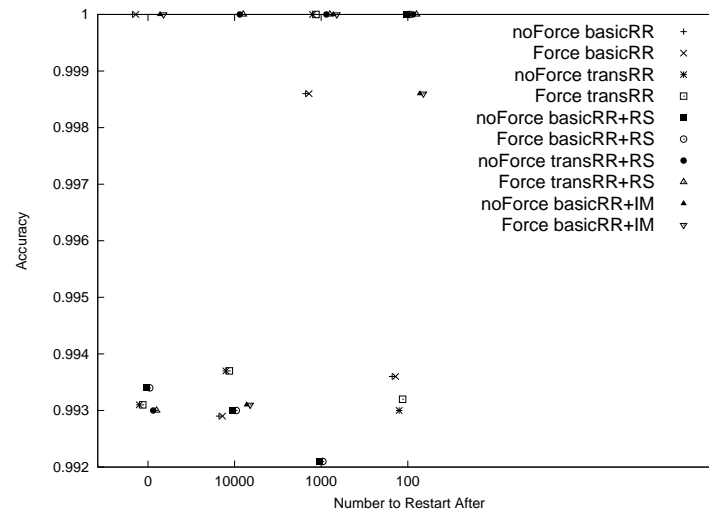


Figure B.379: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f25_400

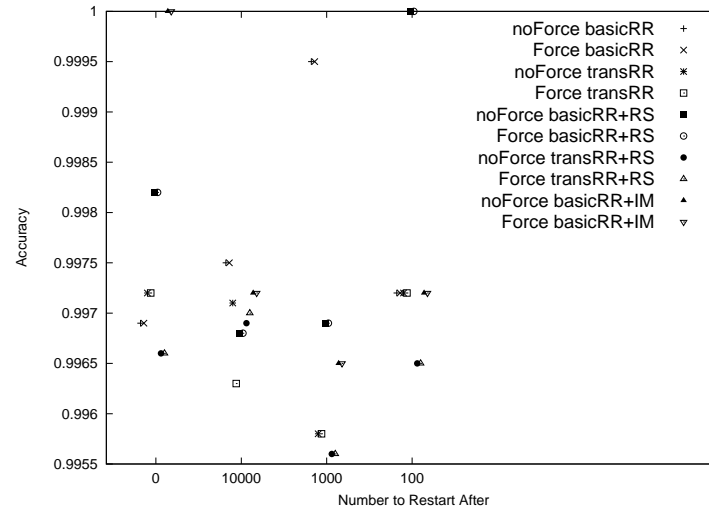


Figure B.380: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f25_500

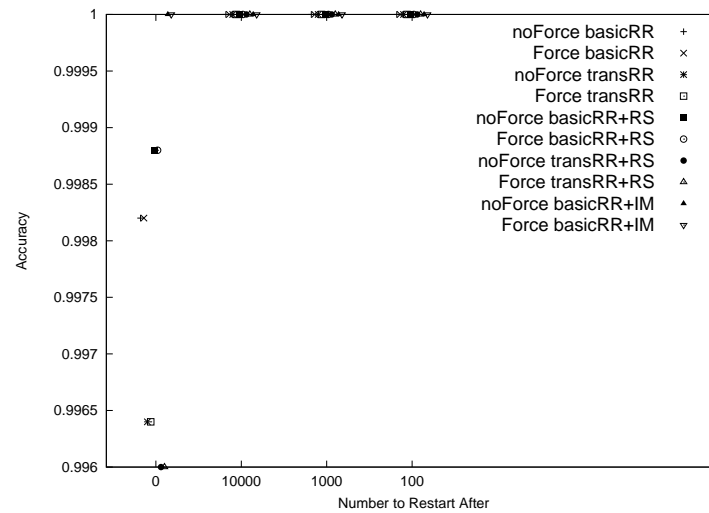


Figure B.381: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f50_315

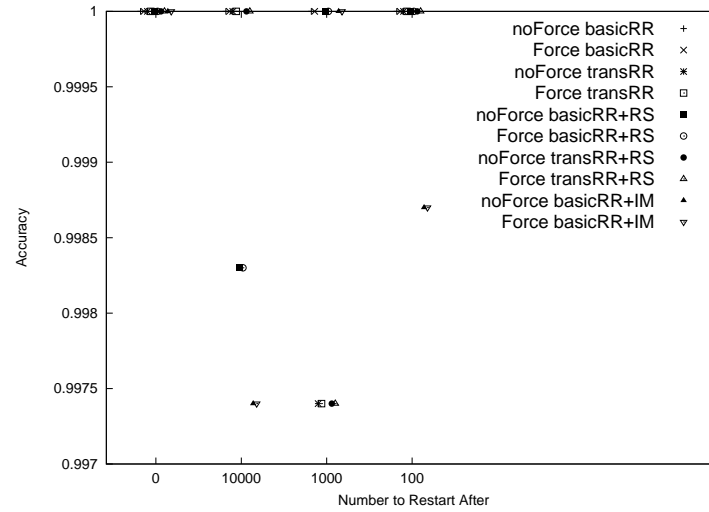


Figure B.382: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f50_412

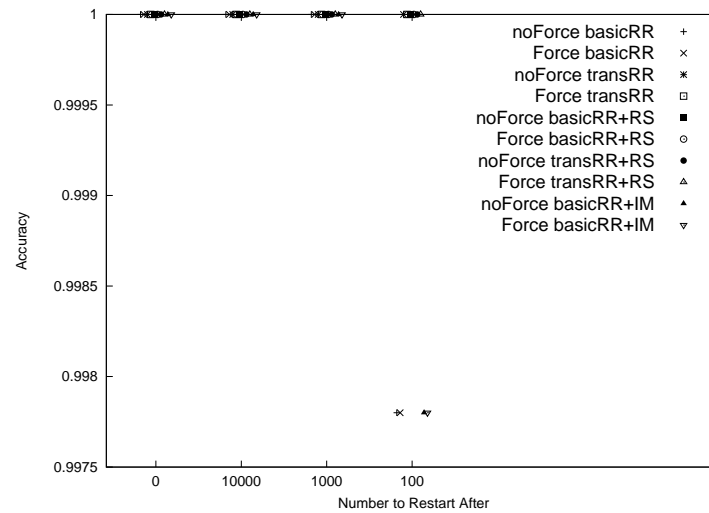


Figure B.383: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f50_498

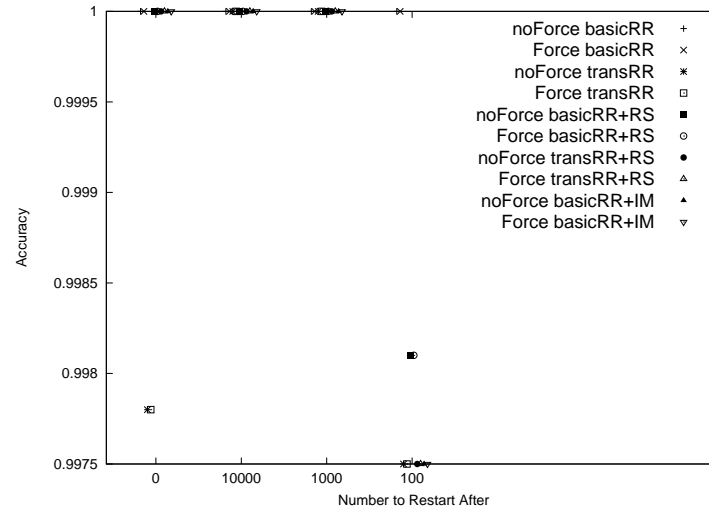


Figure B.384: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f100_307

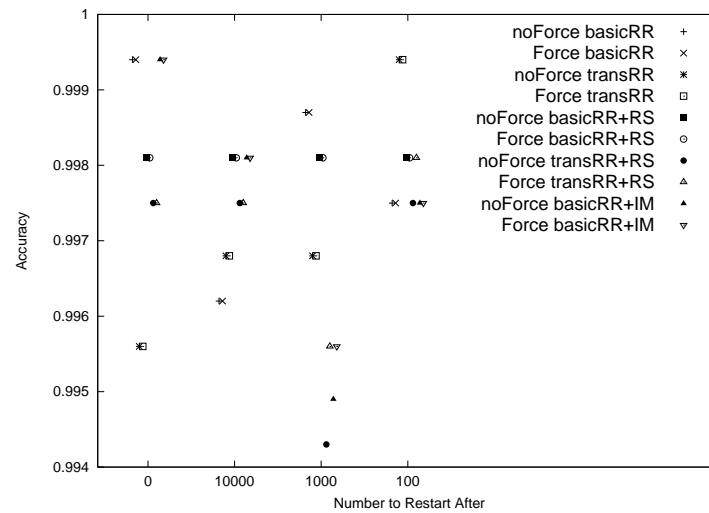


Figure B.385: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f100_415

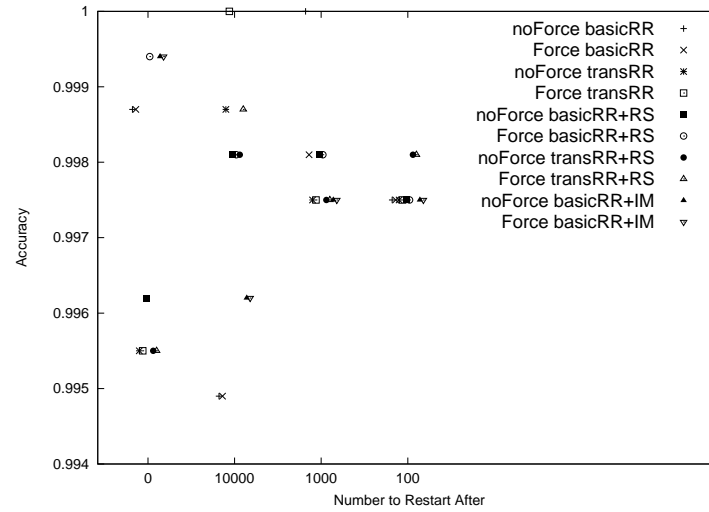


Figure B.386: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f100_512

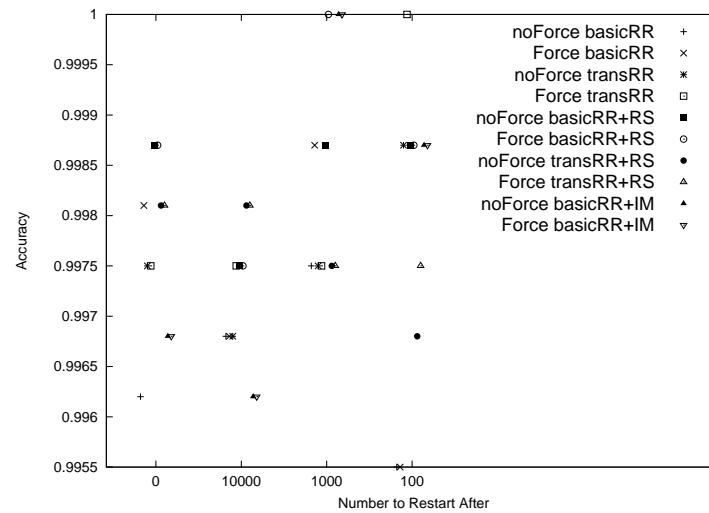


Figure B.387: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f508_354

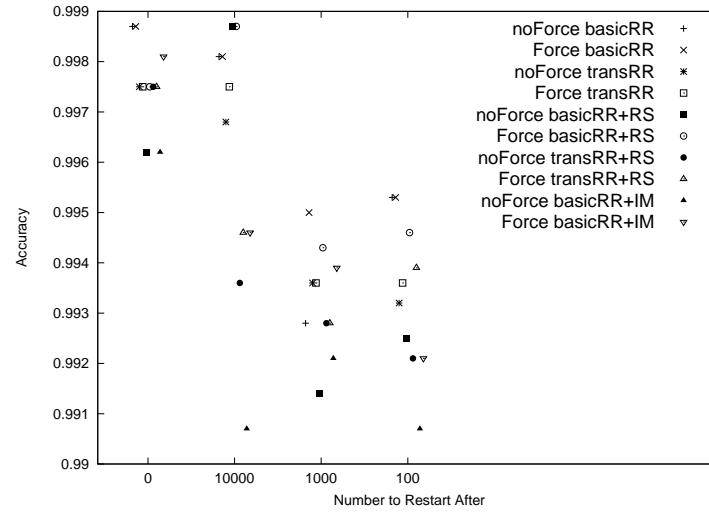


Figure B.388: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f635_350

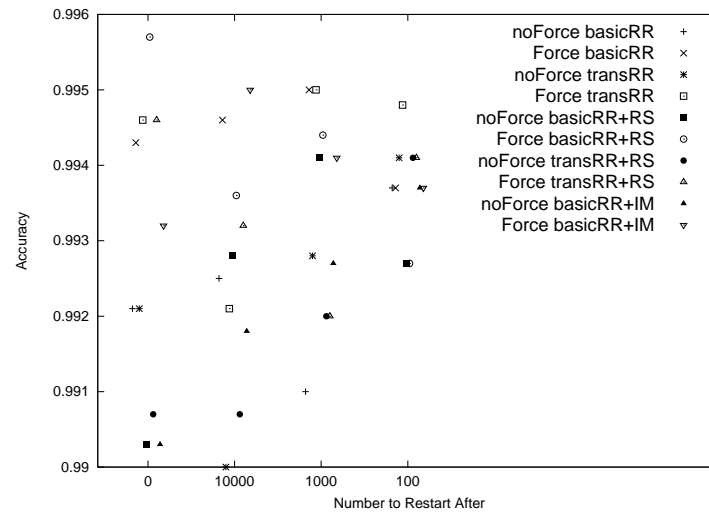


Figure B.389: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f737_355

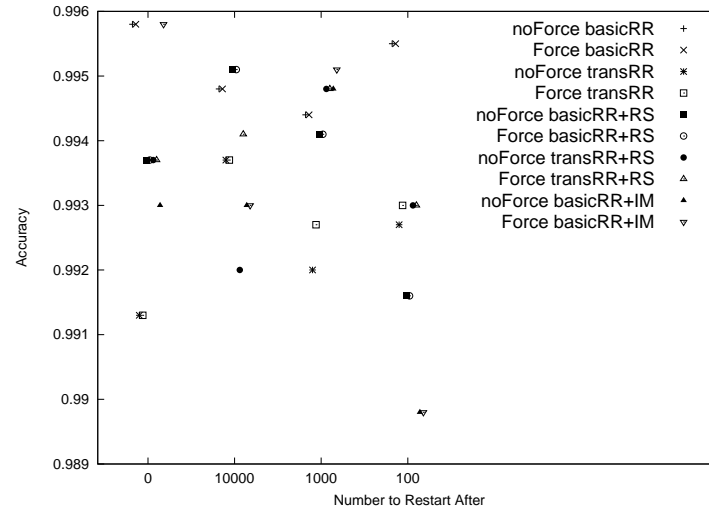


Figure B.390: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f1343_354

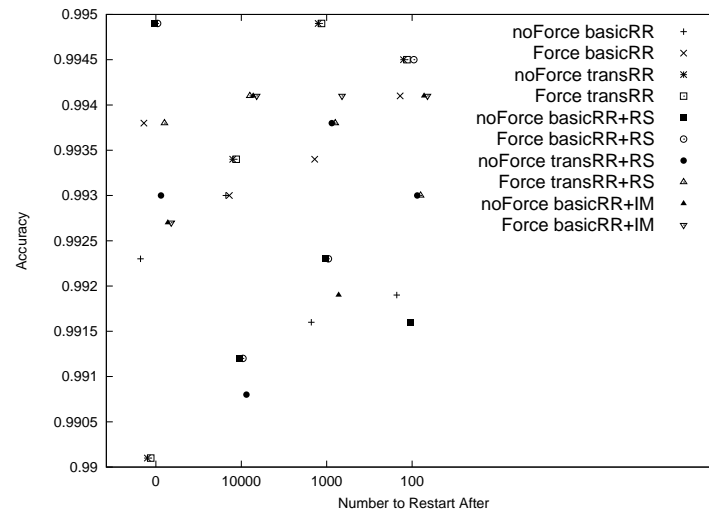


Figure B.391: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f1577_354

B.5.3 Third Set of Results

Results With No Post Optimization and No Forced Recentre

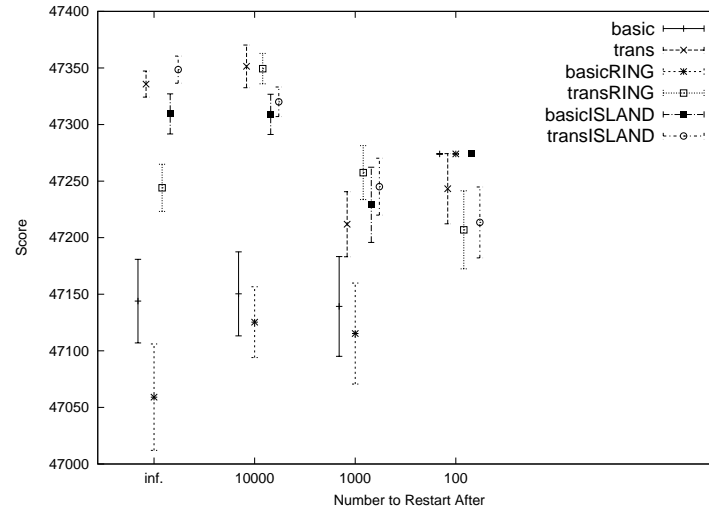


Figure B.392: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance acin1

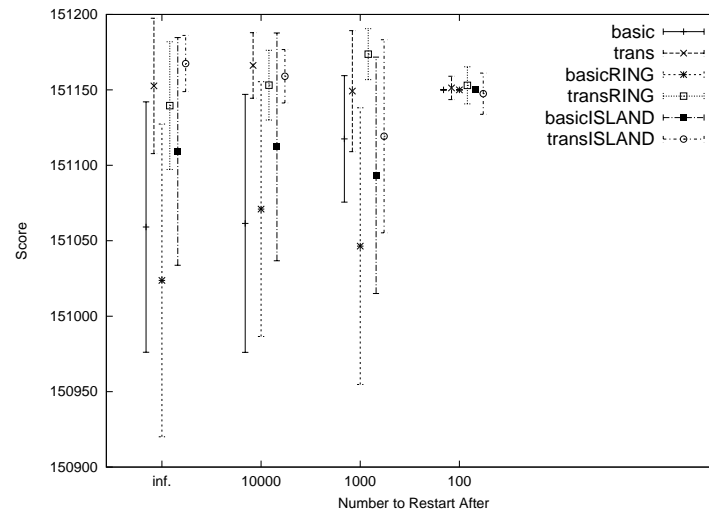


Figure B.393: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance acin2

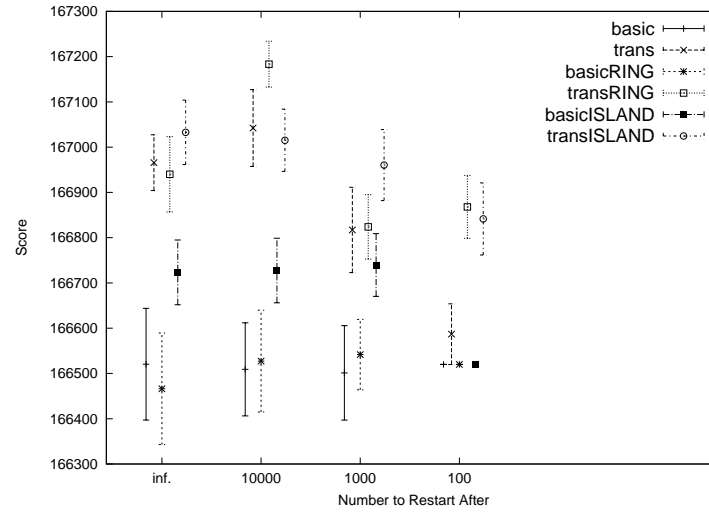


Figure B.394: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance acin3

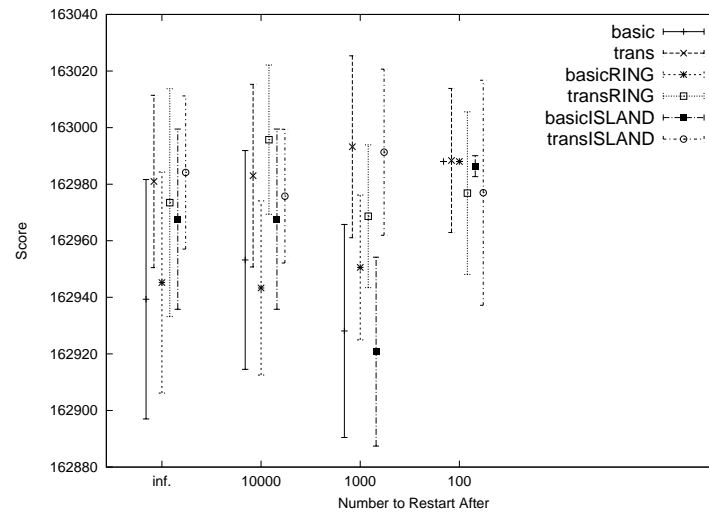


Figure B.395: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance acin5

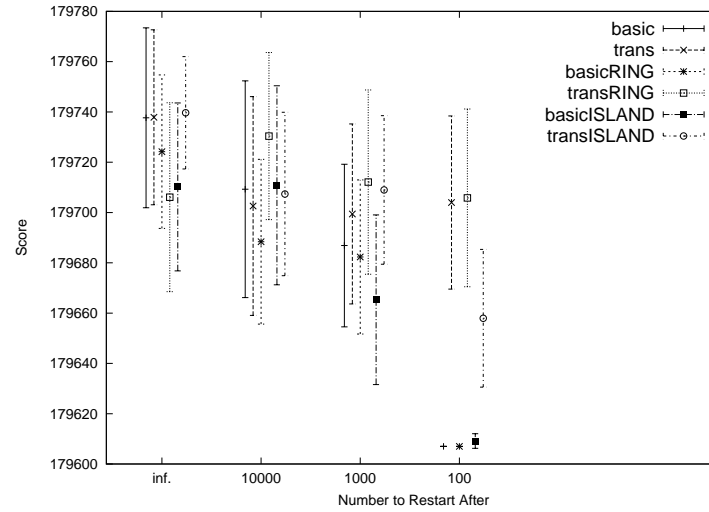


Figure B.396: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance acin7

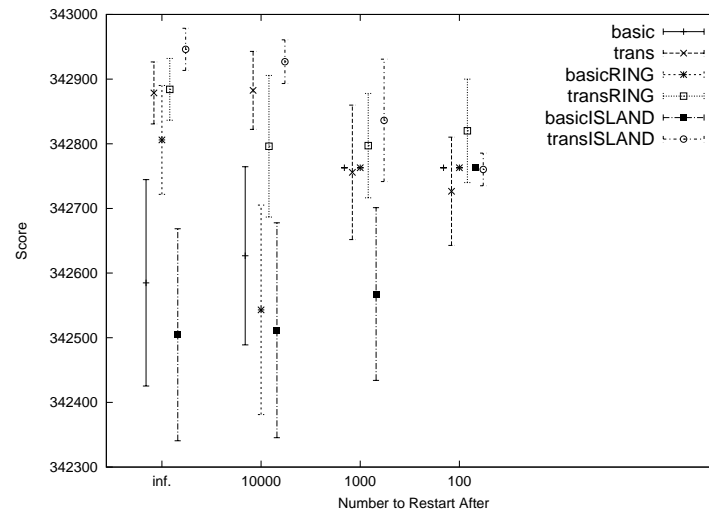


Figure B.397: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance acin9

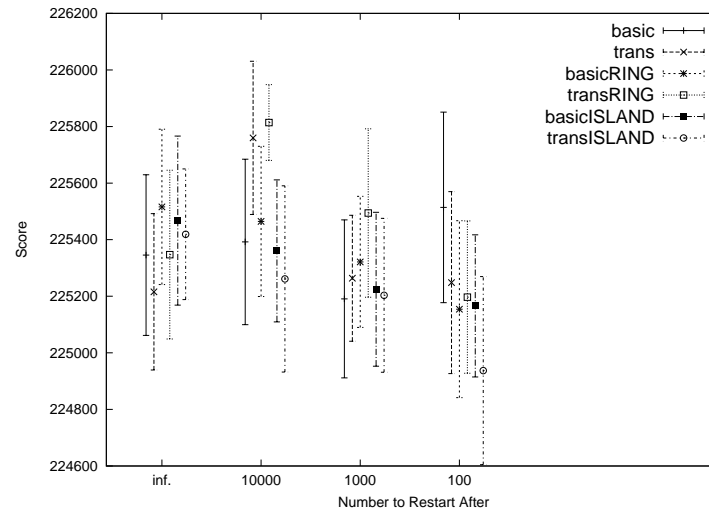


Figure B.398: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance bx842596_4

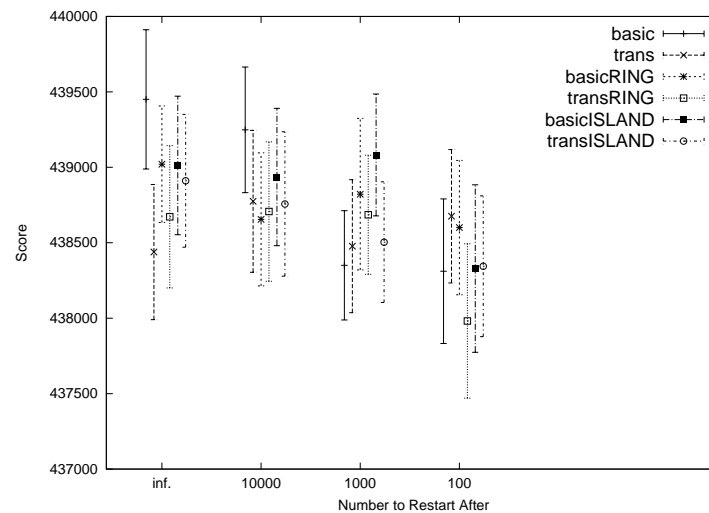


Figure B.399: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance bx842596_7

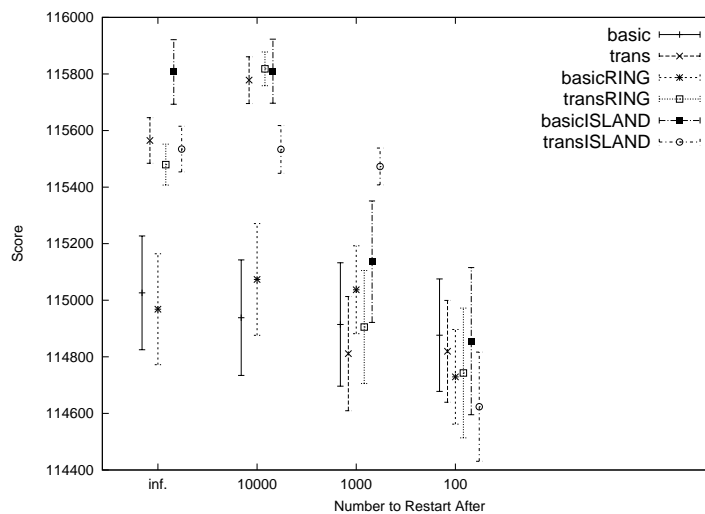


Figure B.400: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance j02459_7

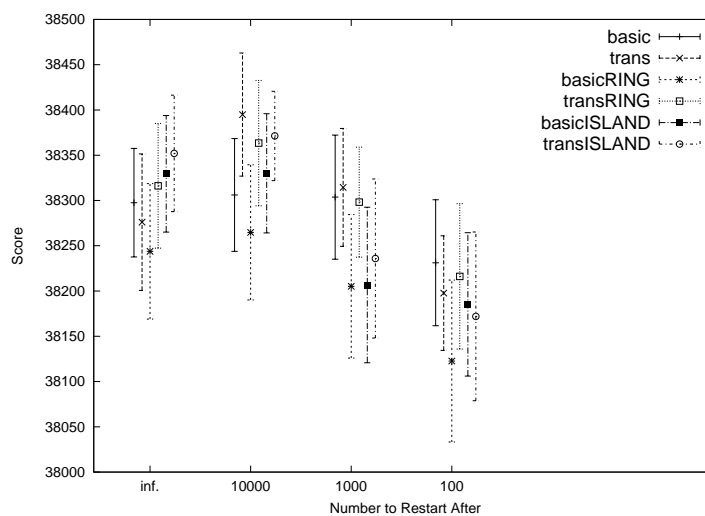


Figure B.401: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance m15421_5

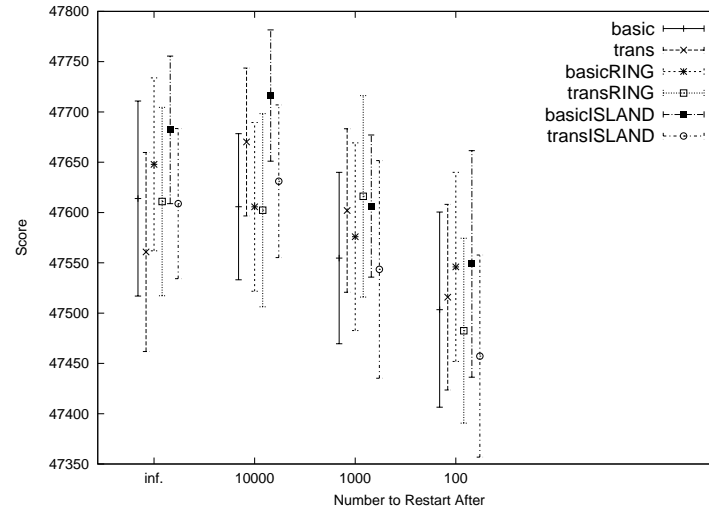


Figure B.402: Comparison of Best Results Between Algorithm Variations with No Post Optimization and No Forced Recentre on Problem Instance m15421_6

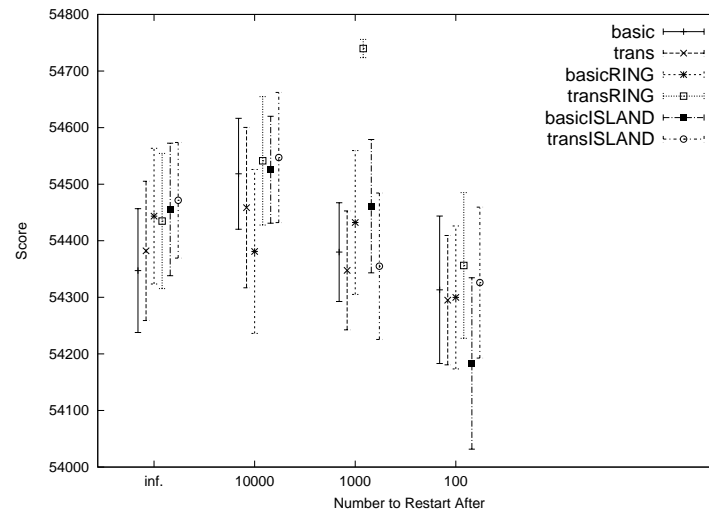


Figure B.403: Comparison of Best Results Between Algorithm Variations with No Post Optimization and No Forced Recentre on Problem Instance m15421_7

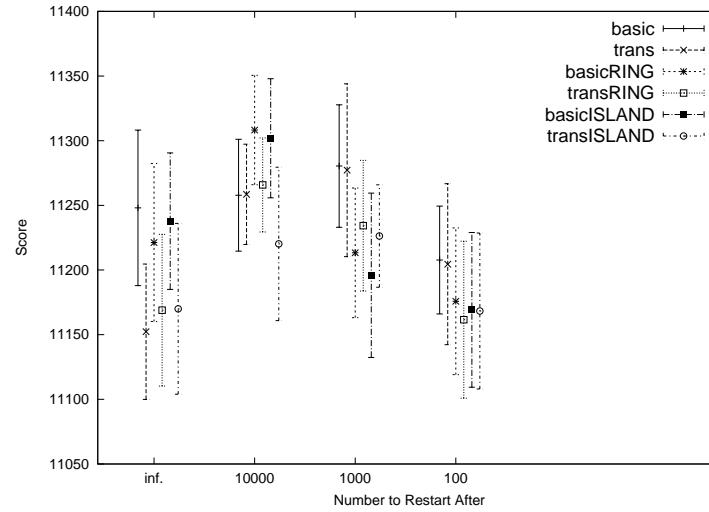


Figure B.404: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance x60189_4

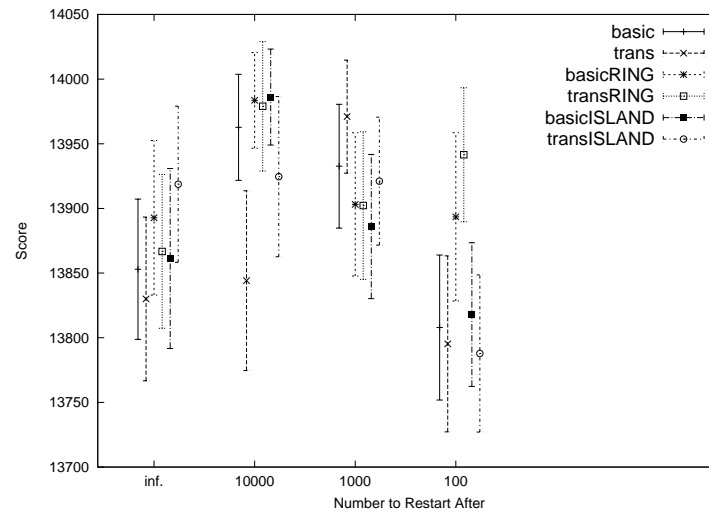


Figure B.405: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance x60189_5

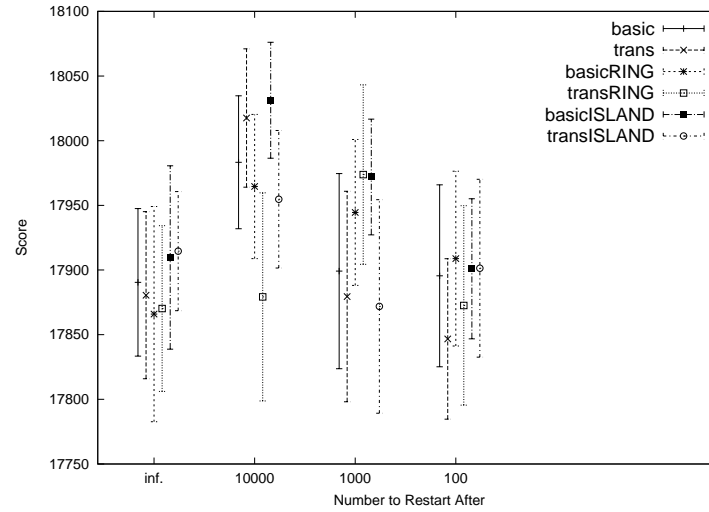


Figure B.406: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance x60189_6

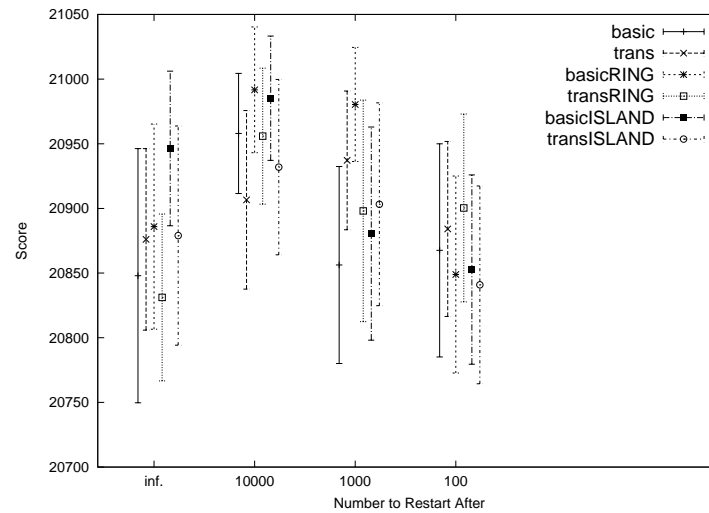


Figure B.407: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance x60189_7

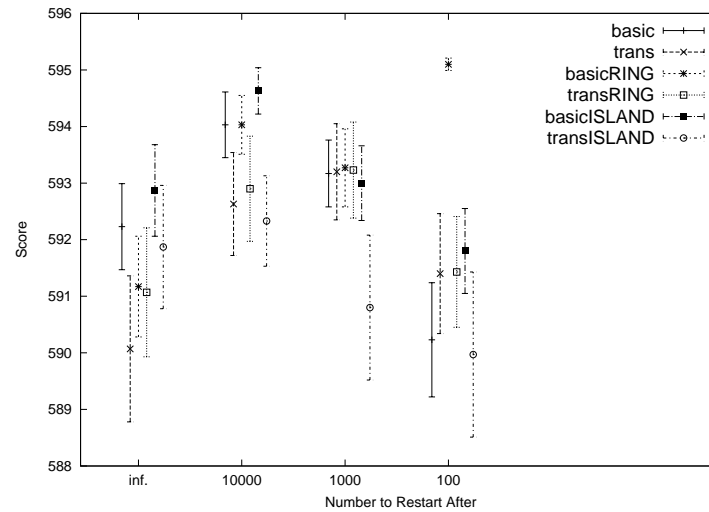


Figure B.408: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f25_305

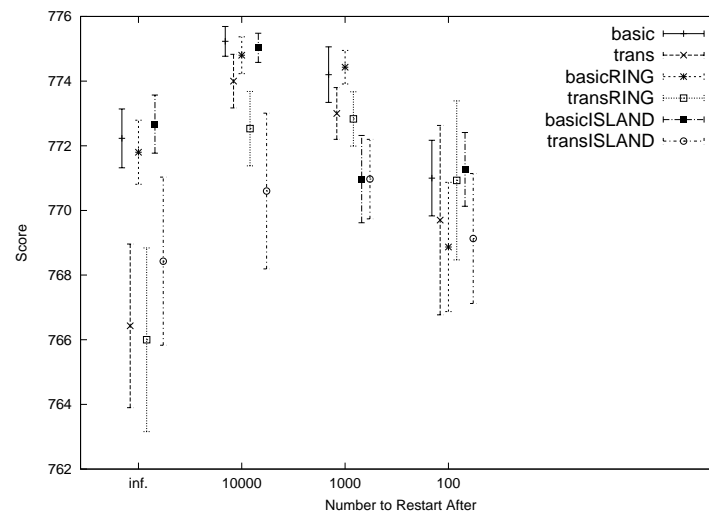


Figure B.409: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f25_400

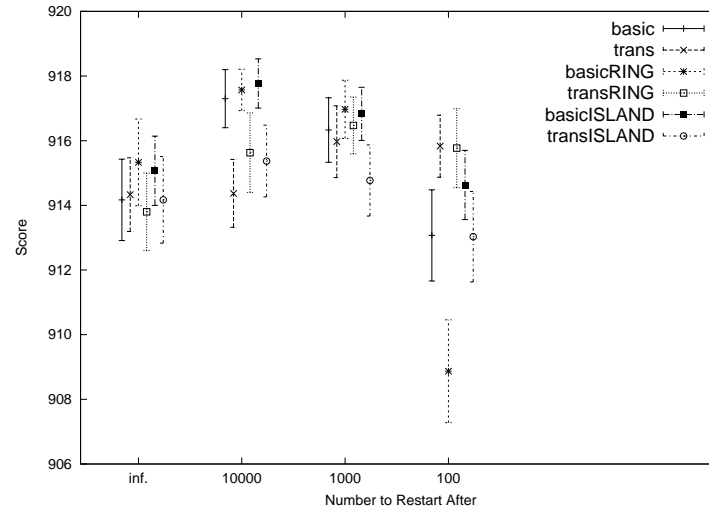


Figure B.410: Comparison of Best Results Between Algorithm Variations with No Post Optimization and No Forced Recentre on Problem Instance f25_500

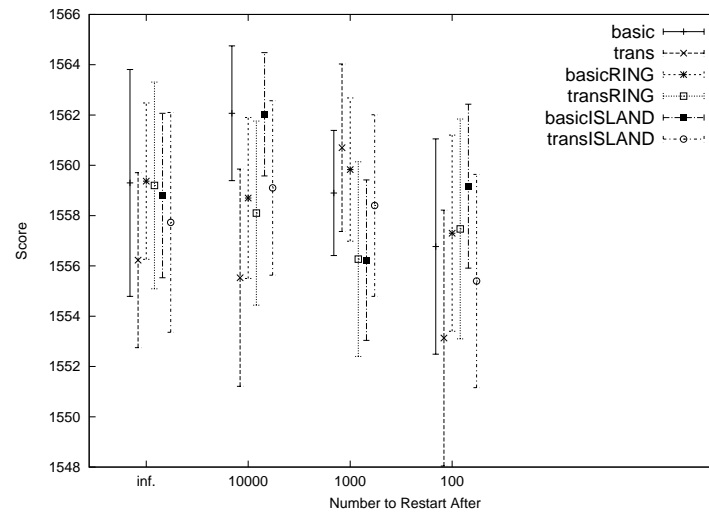


Figure B.411: Comparison of Best Results Between Algorithm Variations with No Post Optimization and No Forced Recentre on Problem Instance f50_315

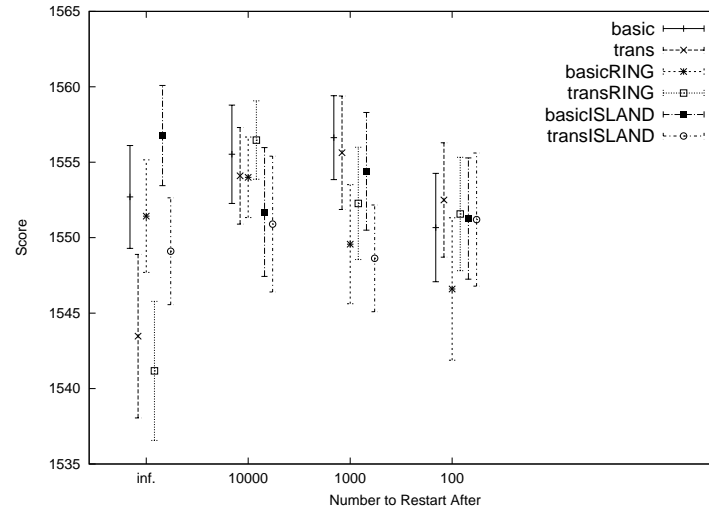


Figure B.412: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f50_412

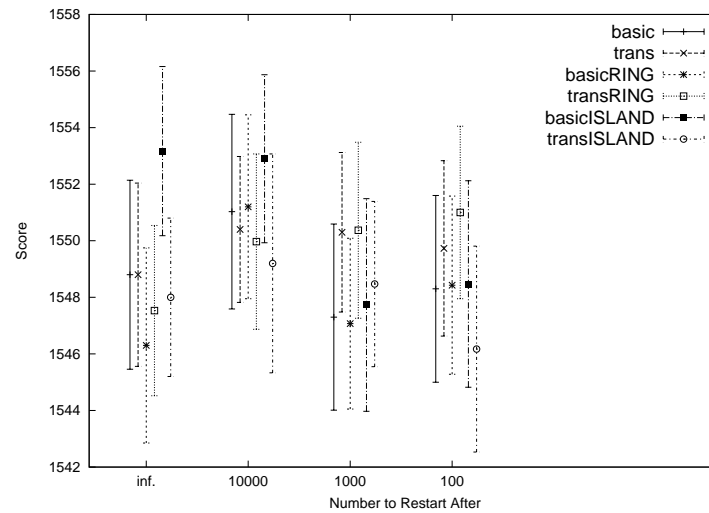


Figure B.413: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f50_498

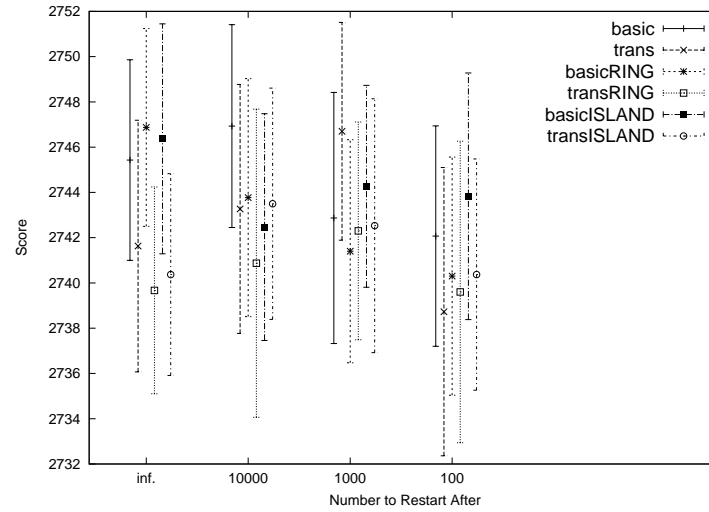


Figure B.414: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f100_307

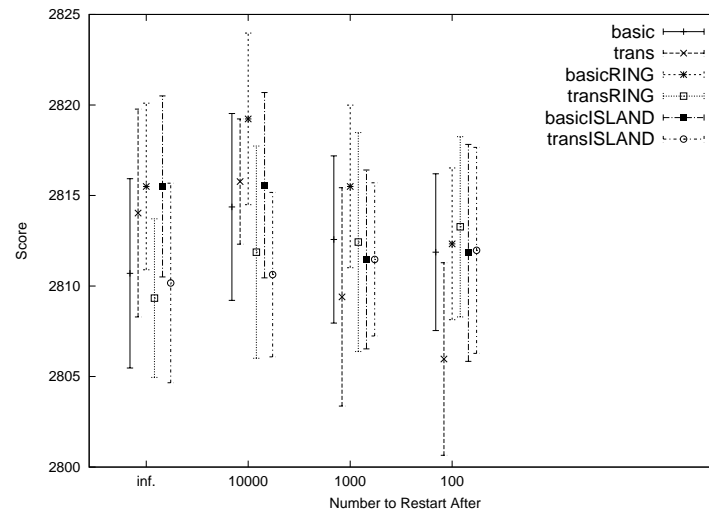


Figure B.415: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f100_415

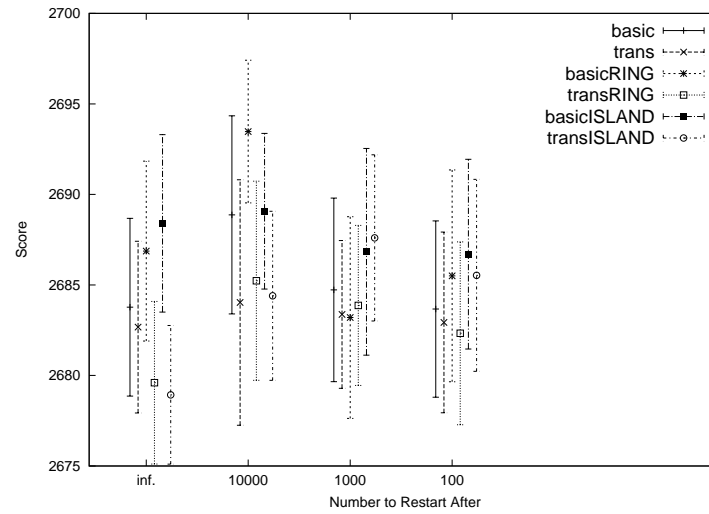


Figure B.416: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f100_512

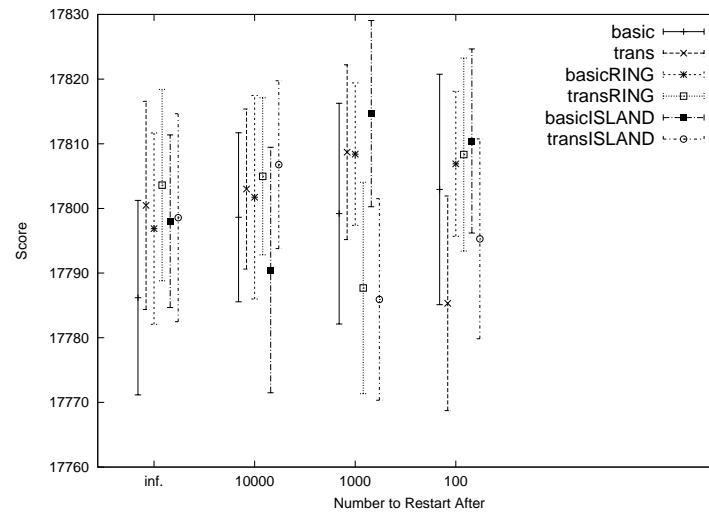


Figure B.417: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f508_354

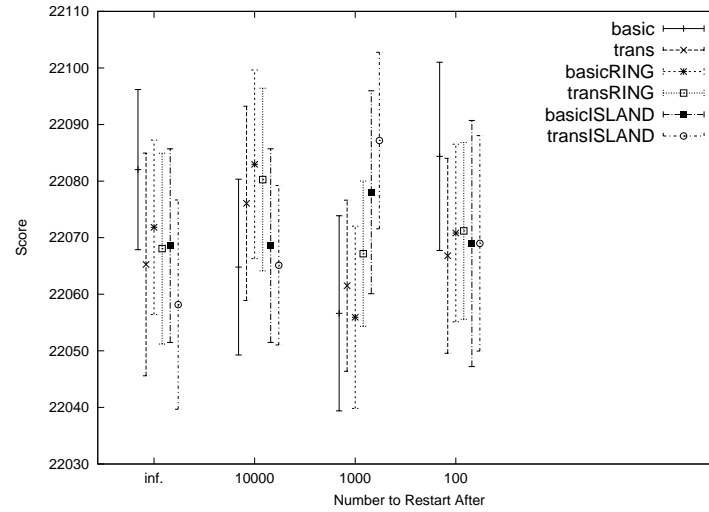


Figure B.418: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f635_350

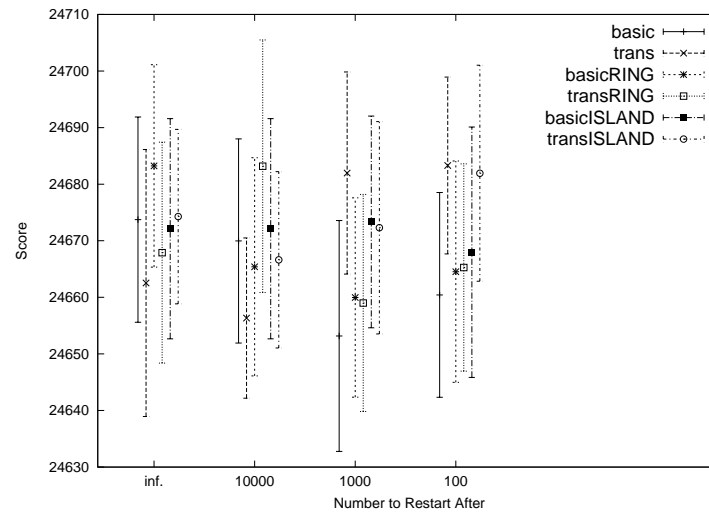


Figure B.419: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f737_355

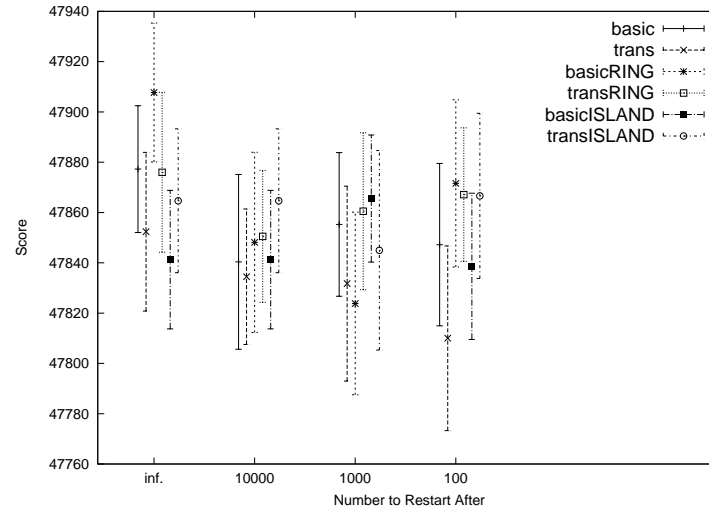


Figure B.420: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f1343_354

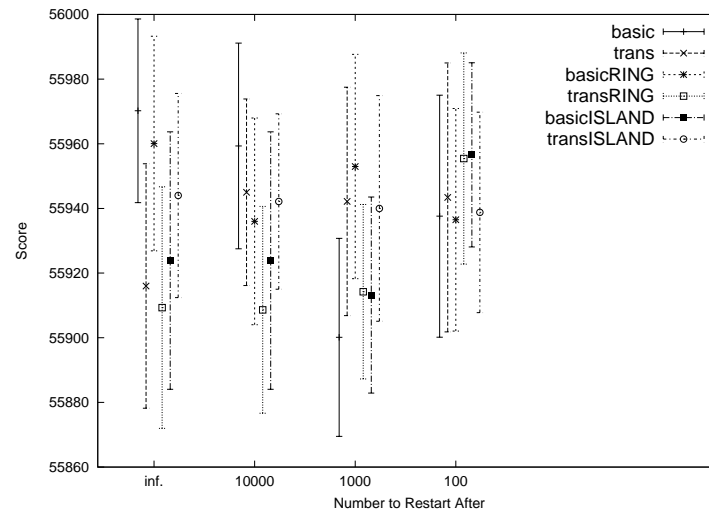


Figure B.421: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f1577_354

Results With Post Optimization and No Forced Recentre

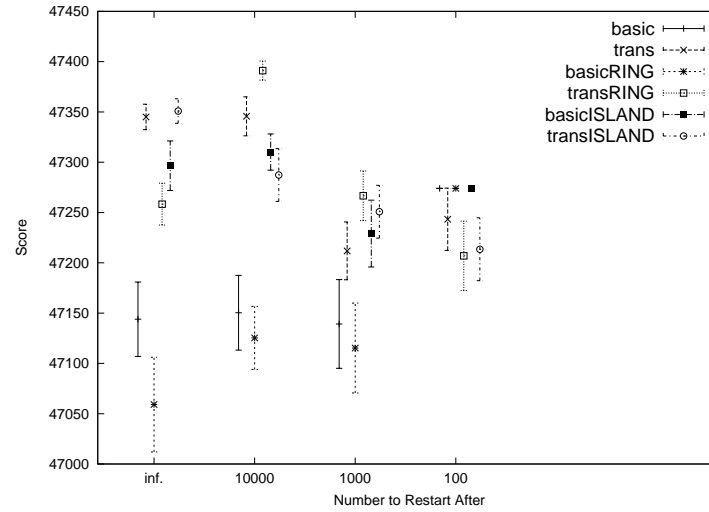


Figure B.422: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin1

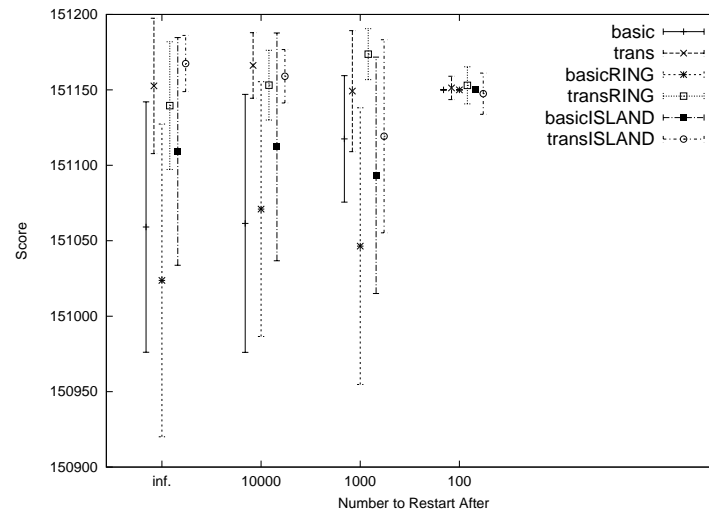


Figure B.423: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin2

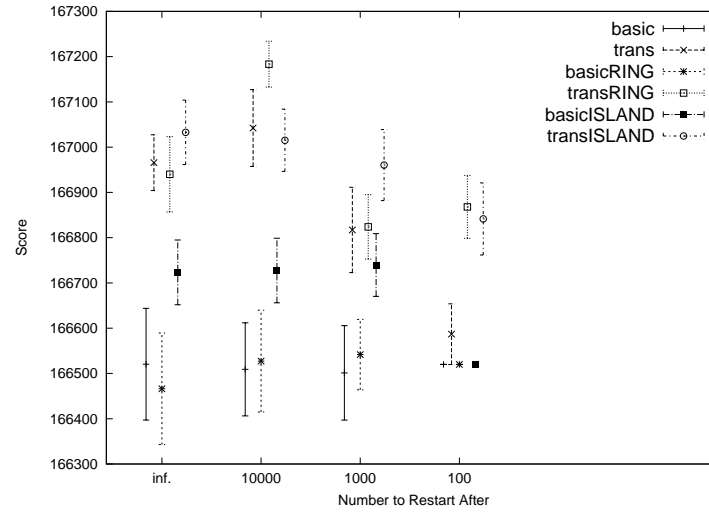


Figure B.424: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin3

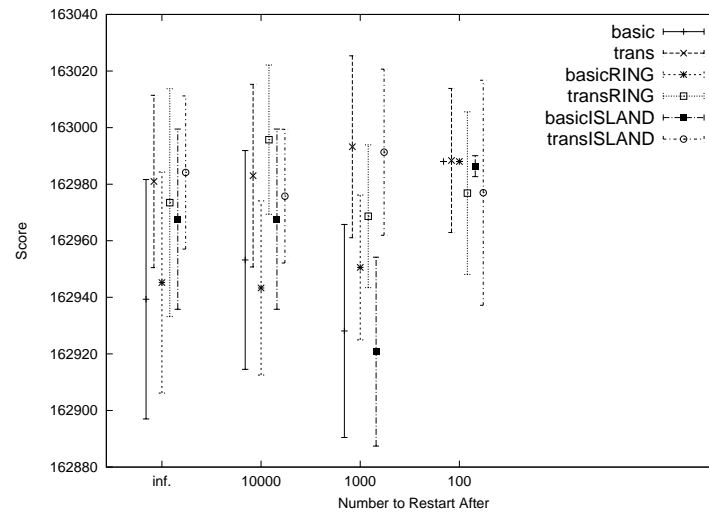


Figure B.425: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin5

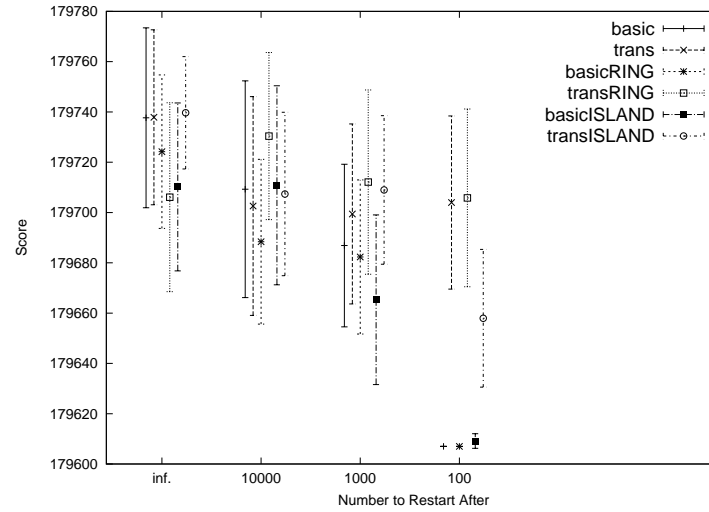


Figure B.426: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin7

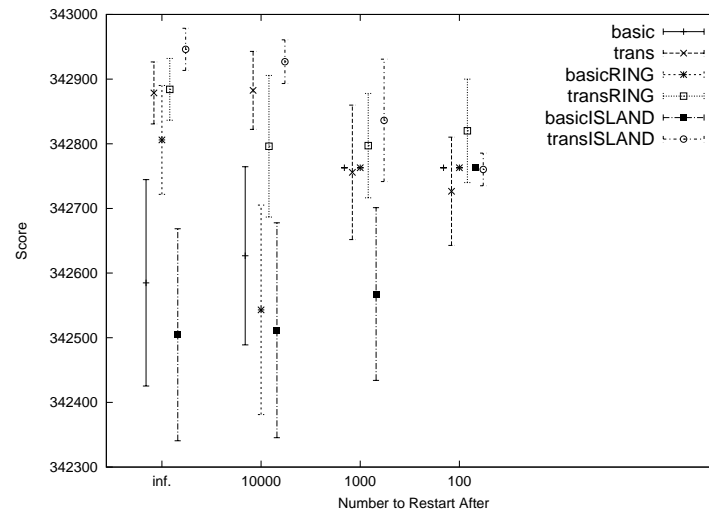


Figure B.427: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin9

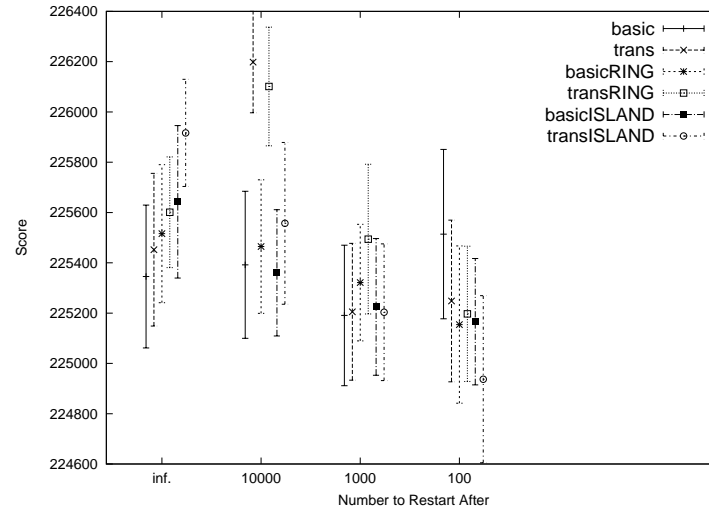


Figure B.428: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance bx842596_4

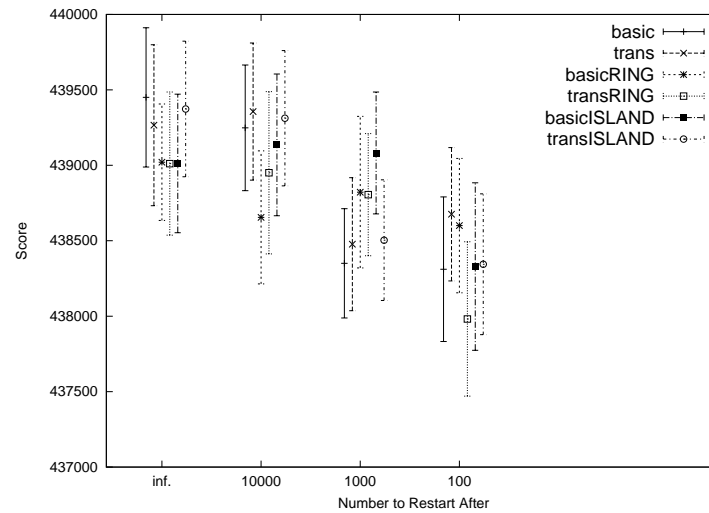


Figure B.429: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance bx842596_7

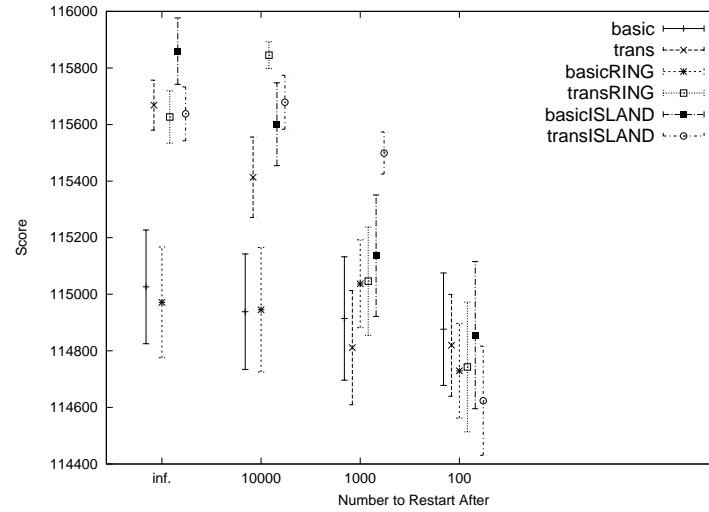


Figure B.430: Comparison of Best Results Between Algorithm Variations with Post Optimizaition and No Forced Recentre on Problem Instance j02459_7

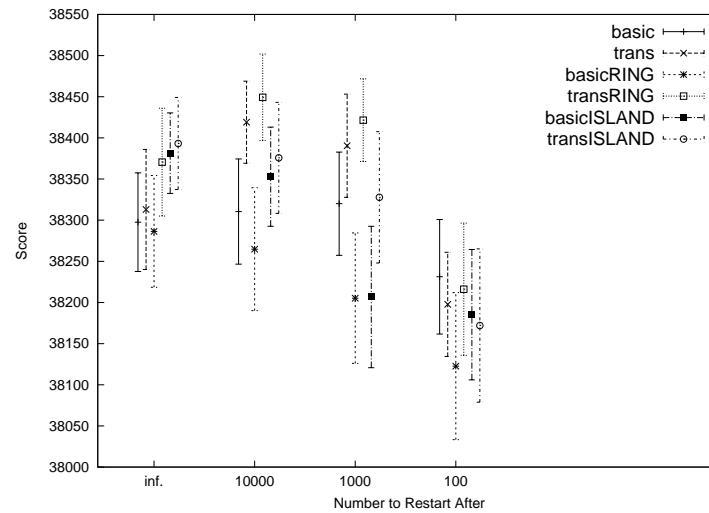


Figure B.431: Comparison of Best Results Between Algorithm Variations with Post Optimizaition and No Forced Recentre on Problem Instance m15421_5

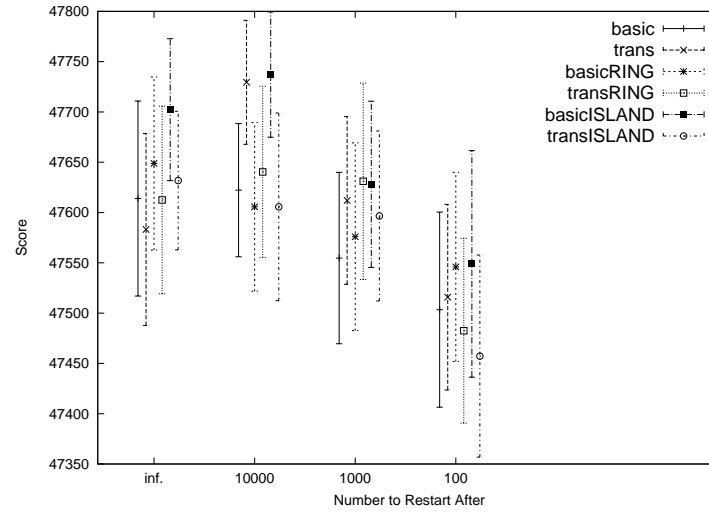


Figure B.432: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance m15421_6

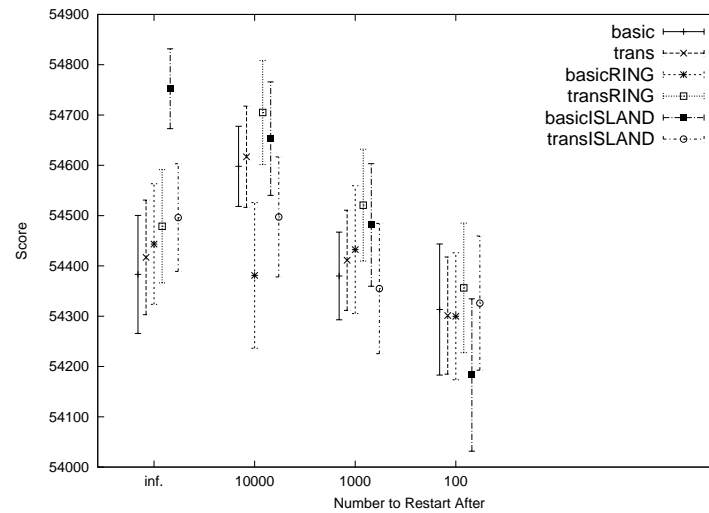


Figure B.433: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance m15421_7

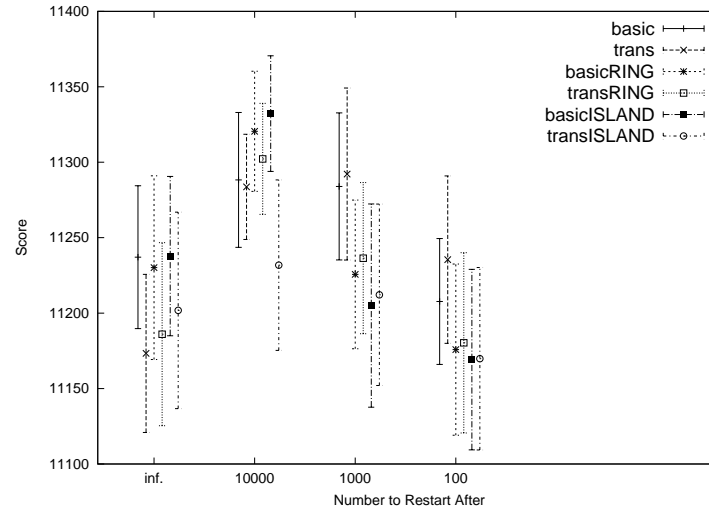


Figure B.434: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance x60189_4

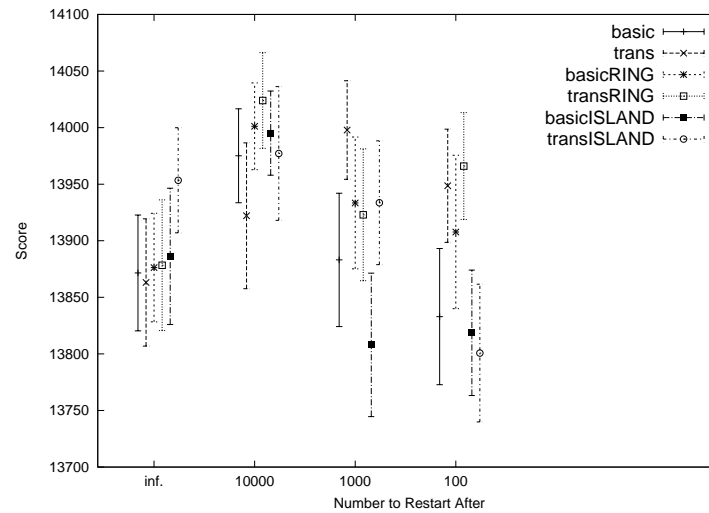


Figure B.435: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance x60189_5

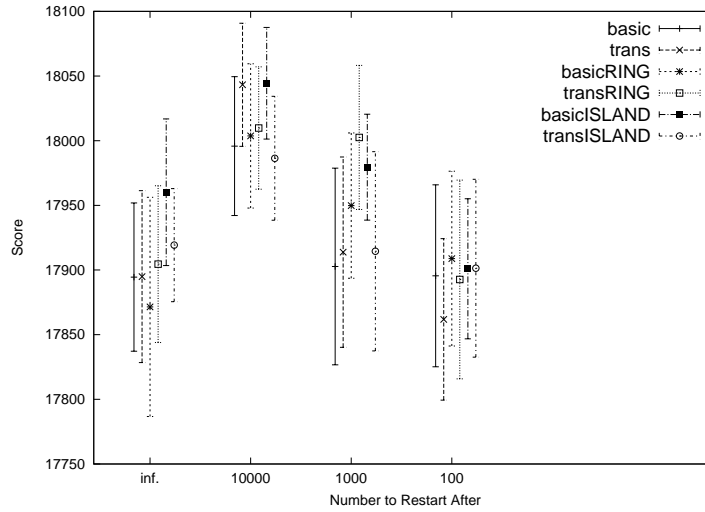


Figure B.436: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance x60189_6

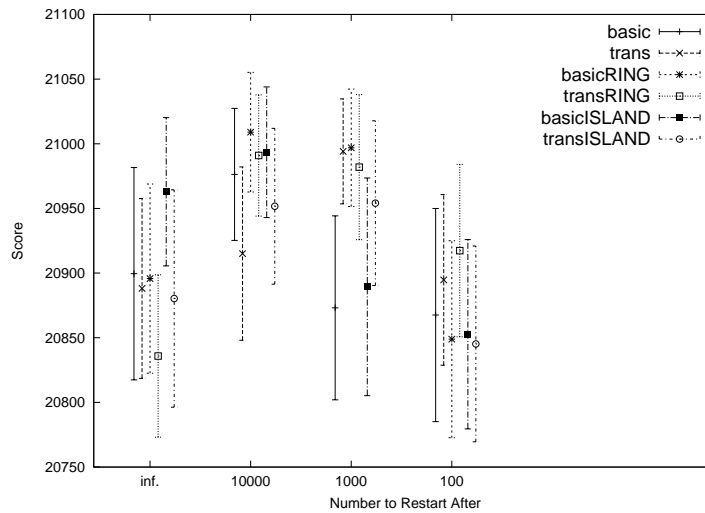


Figure B.437: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance x60189_7

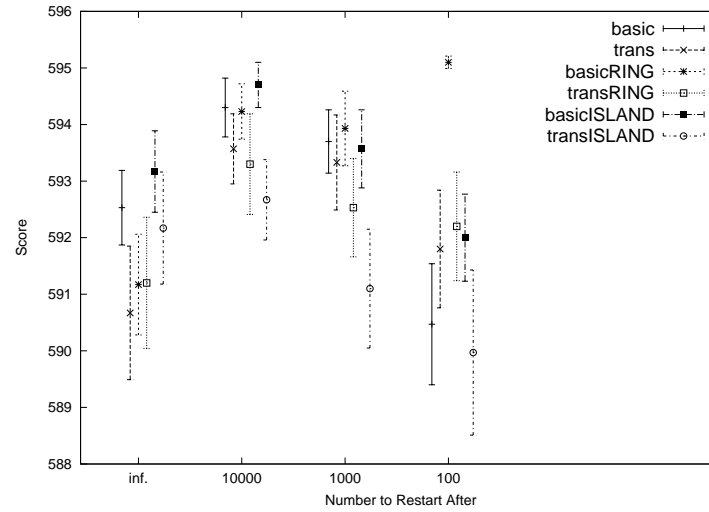


Figure B.438: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f25_305

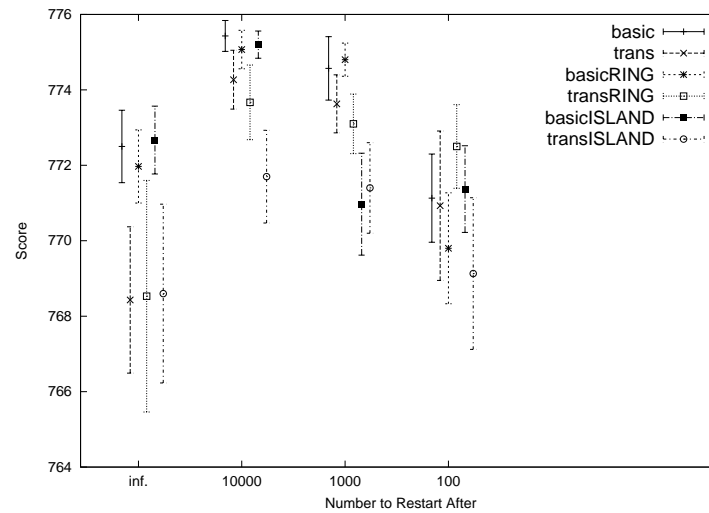


Figure B.439: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f25_400

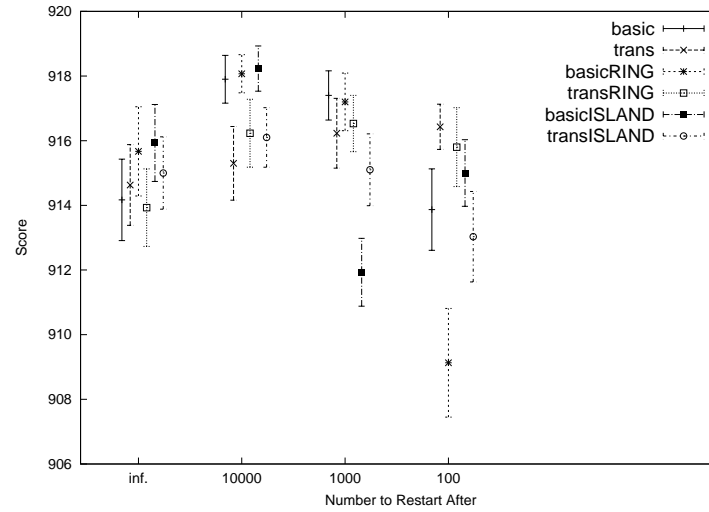


Figure B.440: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f25_500

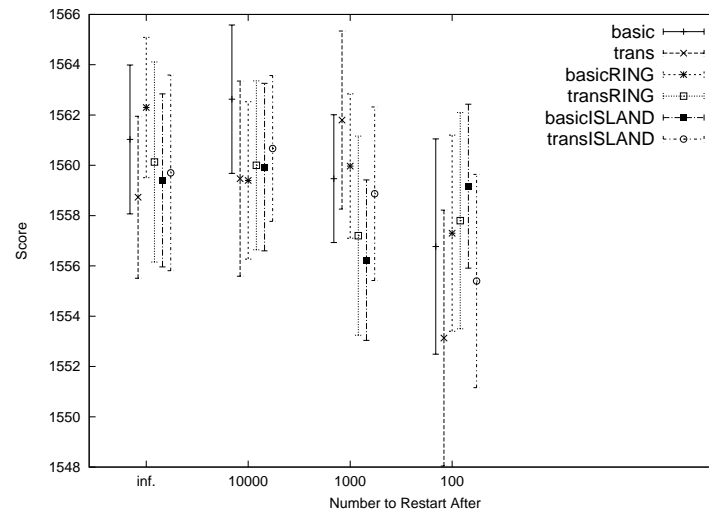


Figure B.441: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f50_315

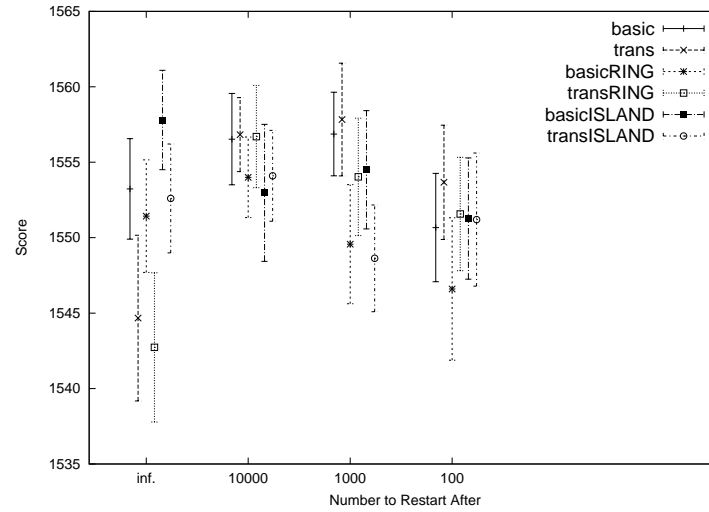


Figure B.442: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f50_412

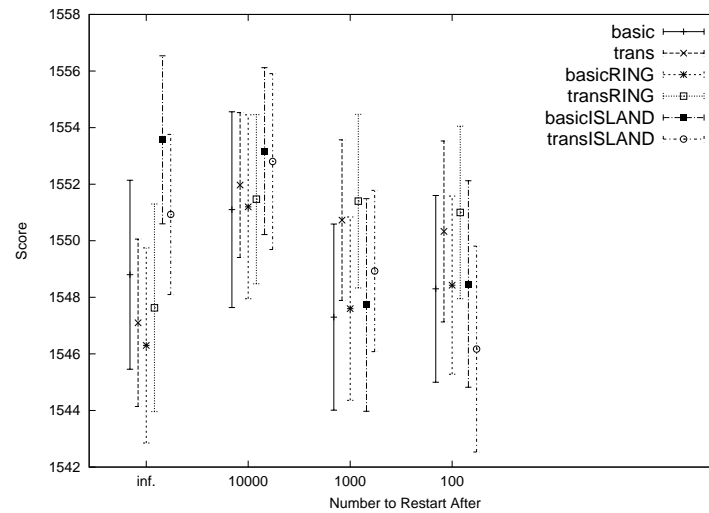


Figure B.443: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f50_498

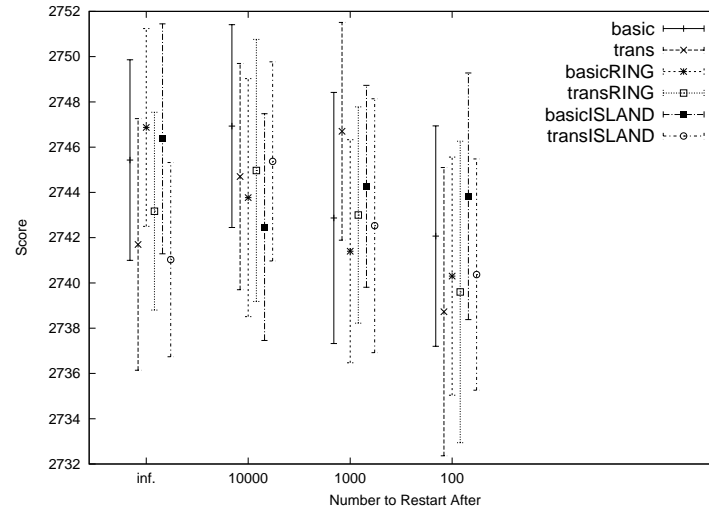


Figure B.444: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f100_307

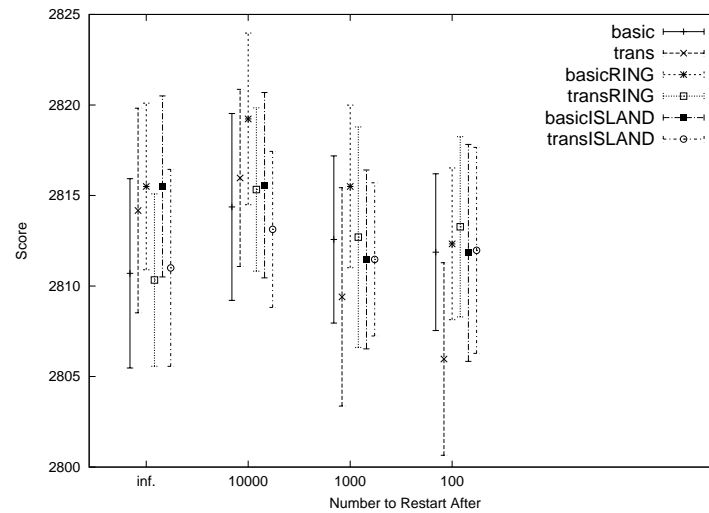


Figure B.445: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f100_415

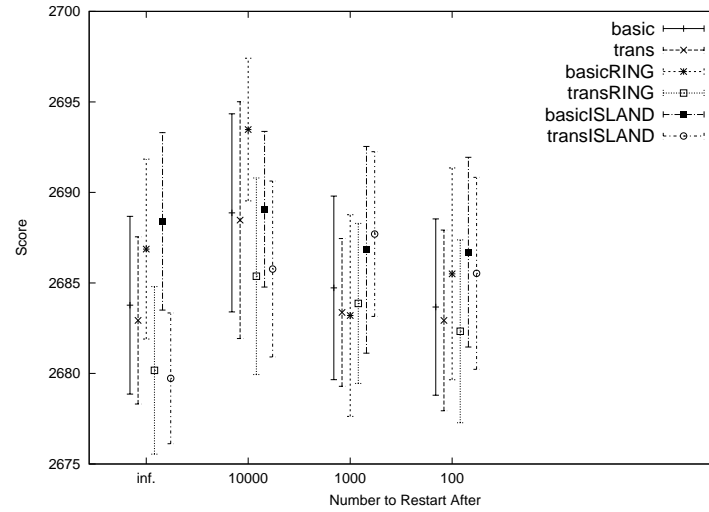


Figure B.446: Comparison of Best Results Between Algorithm Variations with Post Optimizaition and No Forced Recentre on Problem Instance f100_512

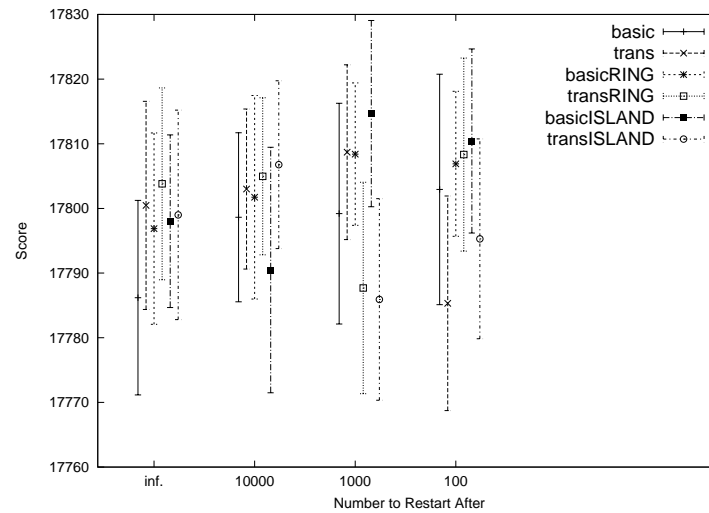


Figure B.447: Comparison of Best Results Between Algorithm Variations with Post Optimizaition and No Forced Recentre on Problem Instance f508_354

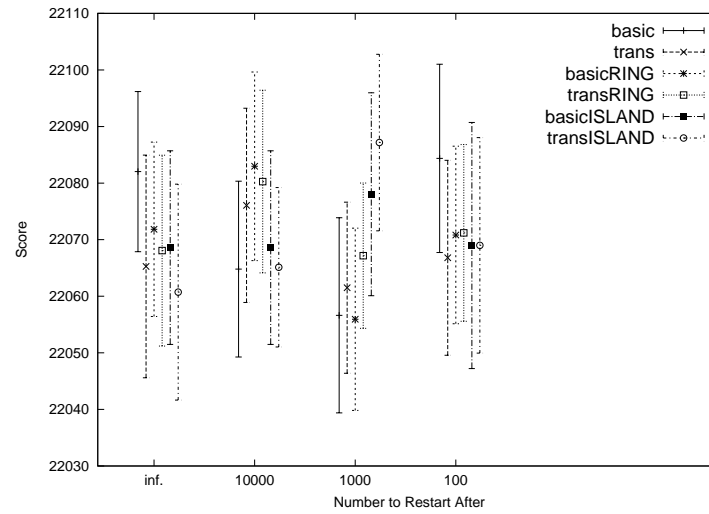


Figure B.448: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f635_350

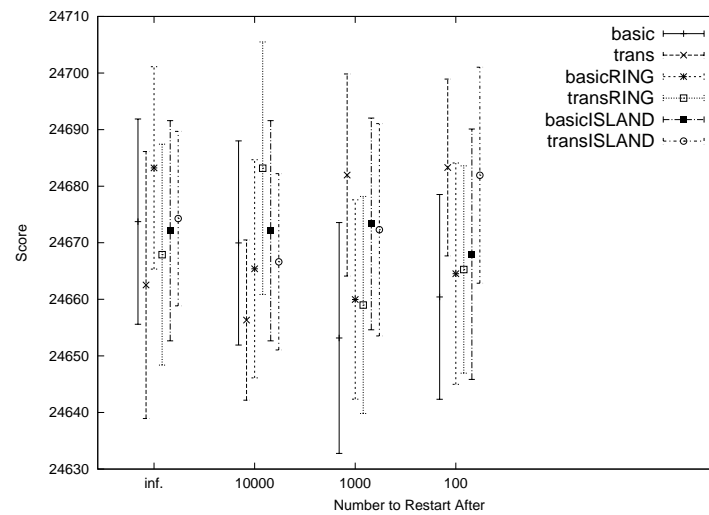


Figure B.449: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f737_355

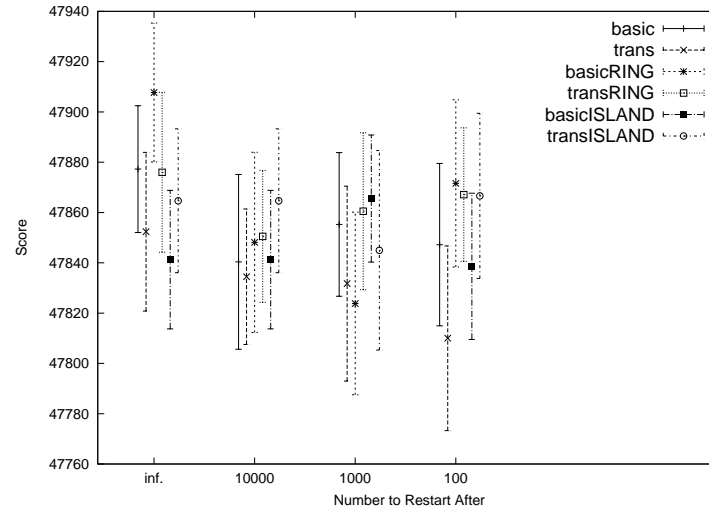


Figure B.450: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f1343_354

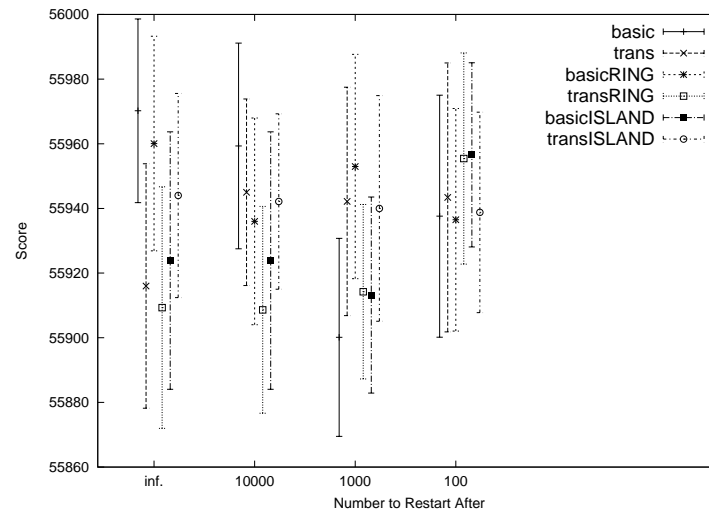


Figure B.451: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f1577_354

Results With No Post Optimization and Forced Recentre

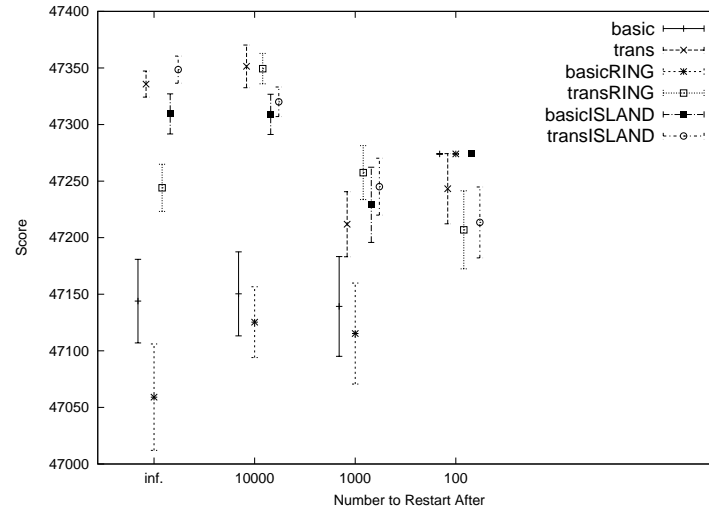


Figure B.452: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin1

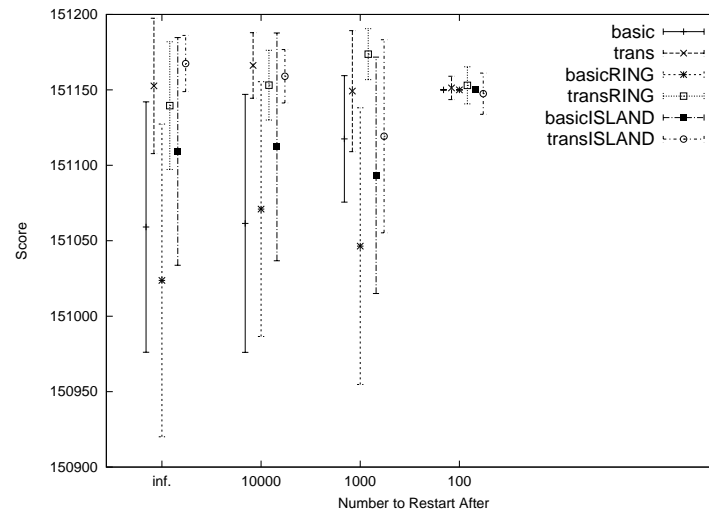


Figure B.453: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin2

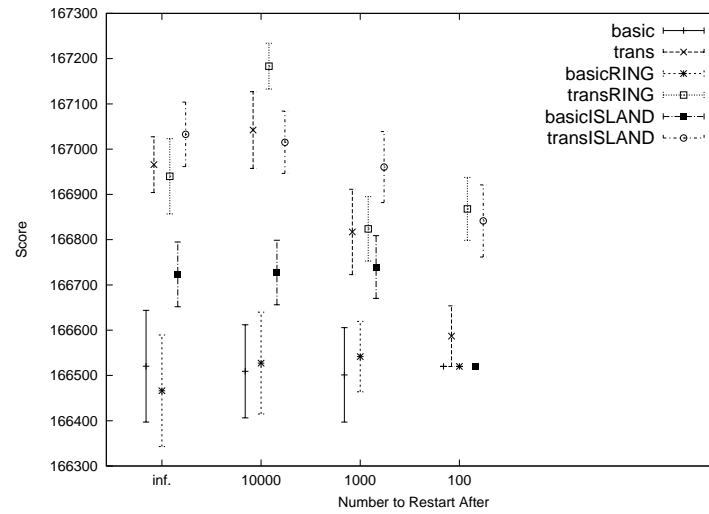


Figure B.454: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin3

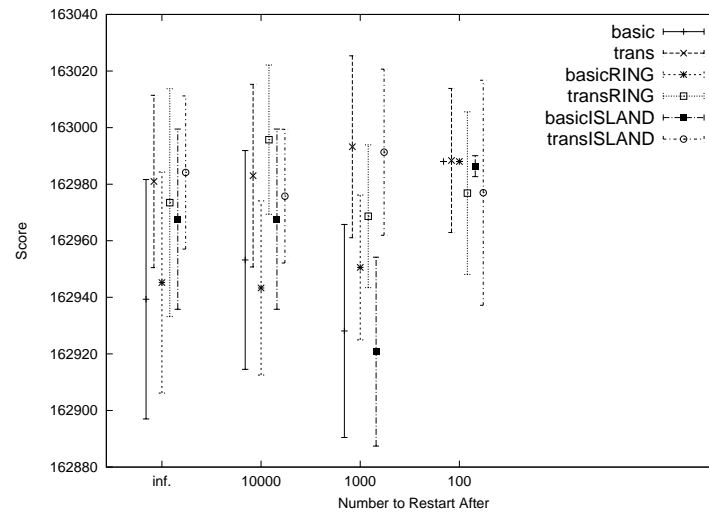


Figure B.455: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin5

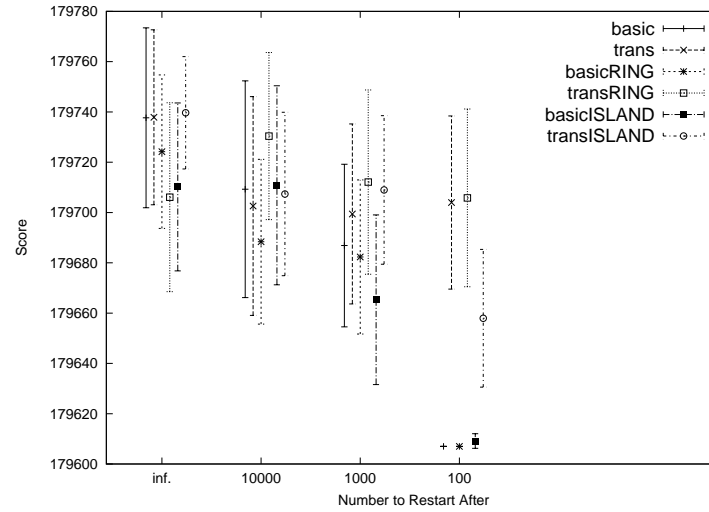


Figure B.456: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin7

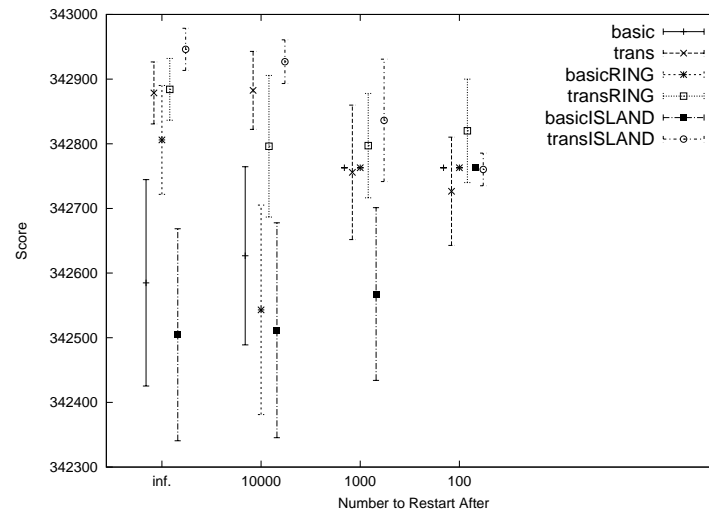


Figure B.457: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin9

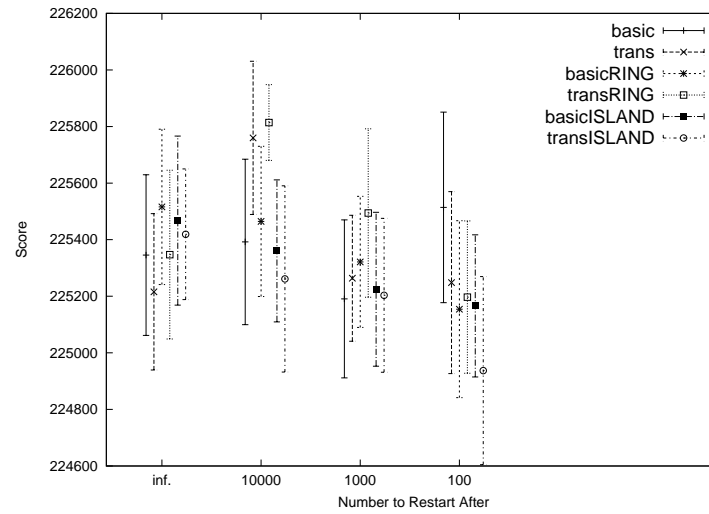


Figure B.458: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance bx842596_4

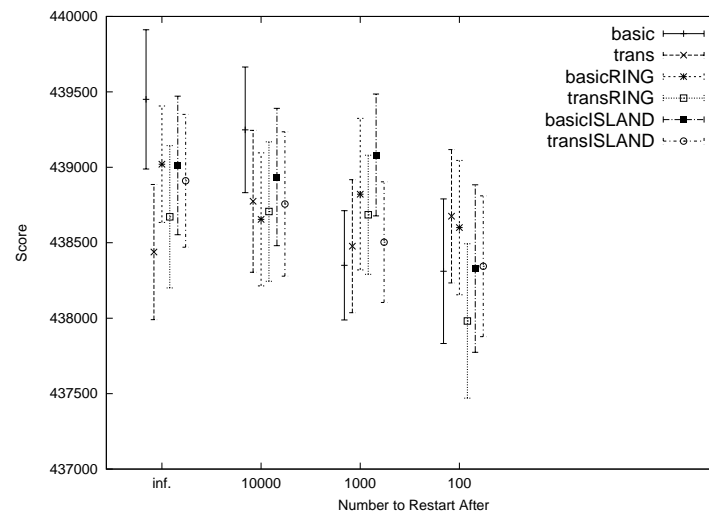


Figure B.459: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance bx842596_7

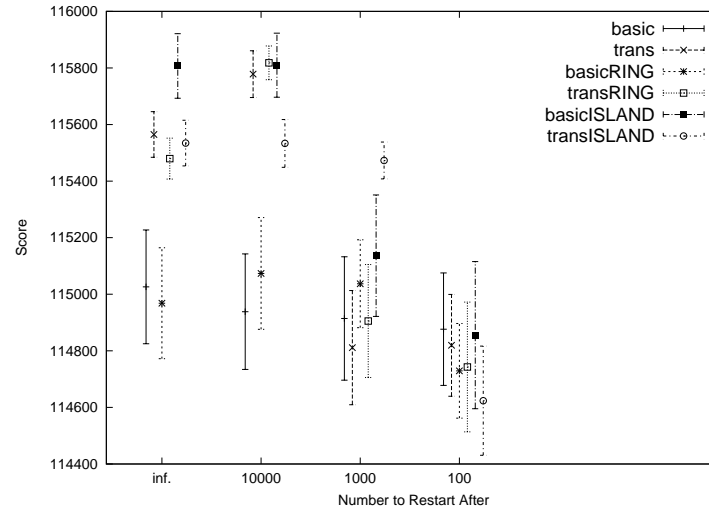


Figure B.460: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance j02459_7

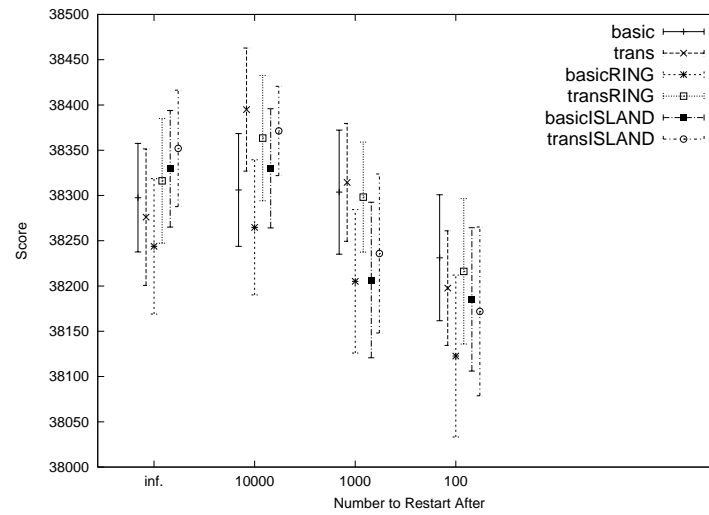


Figure B.461: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance m15421_5

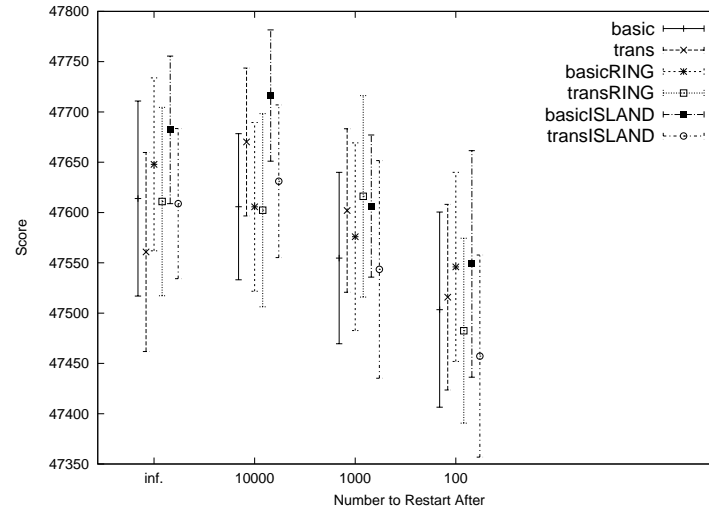


Figure B.462: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance m15421_6

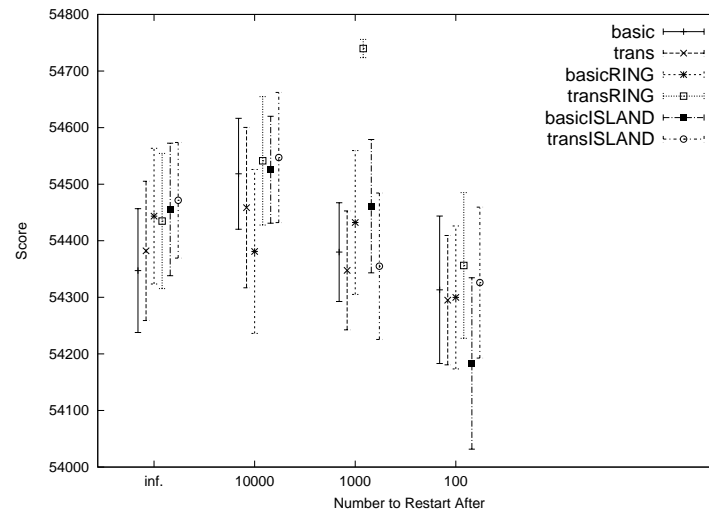


Figure B.463: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance m15421_7

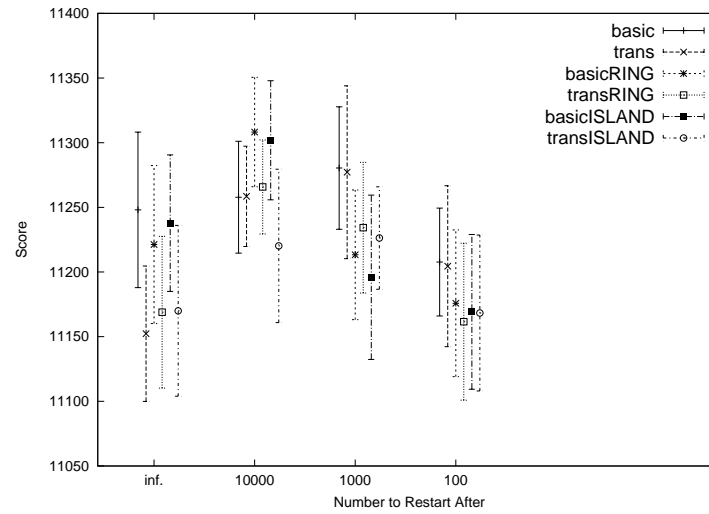


Figure B.464: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance x60189_4

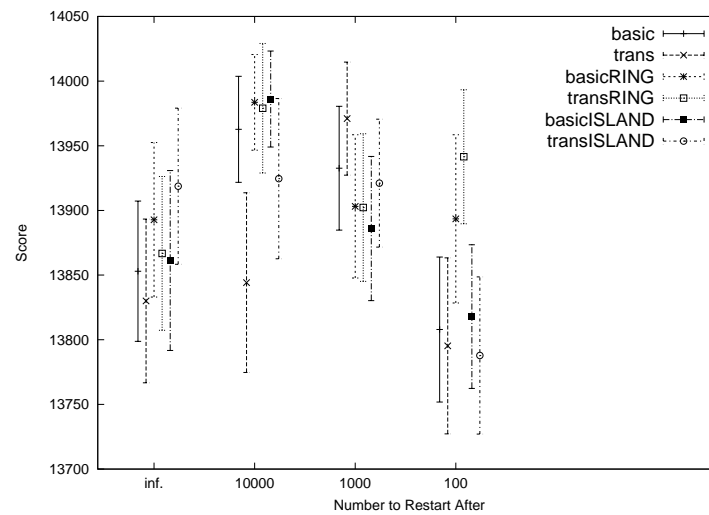


Figure B.465: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance x60189_5

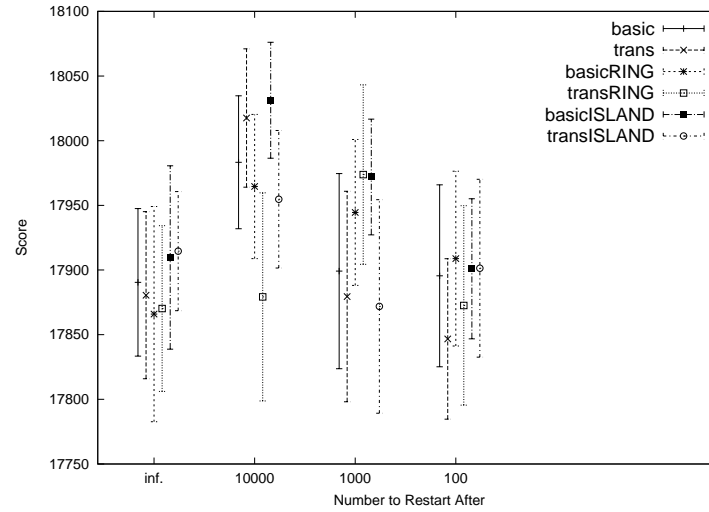


Figure B.466: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance x60189_6

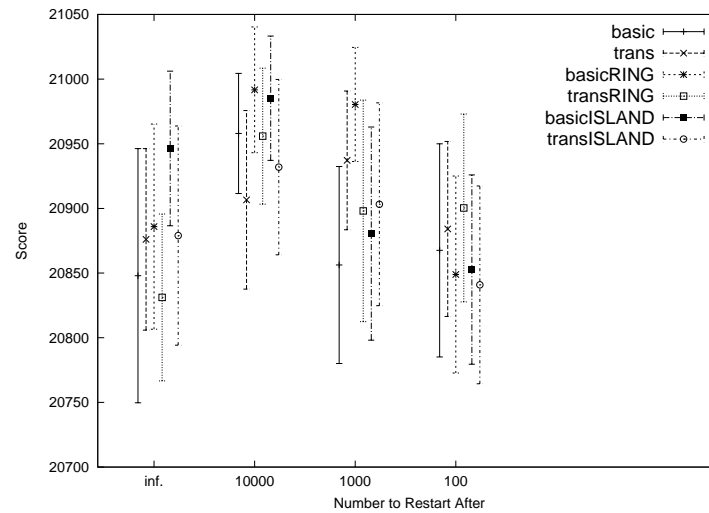


Figure B.467: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance x60189_7

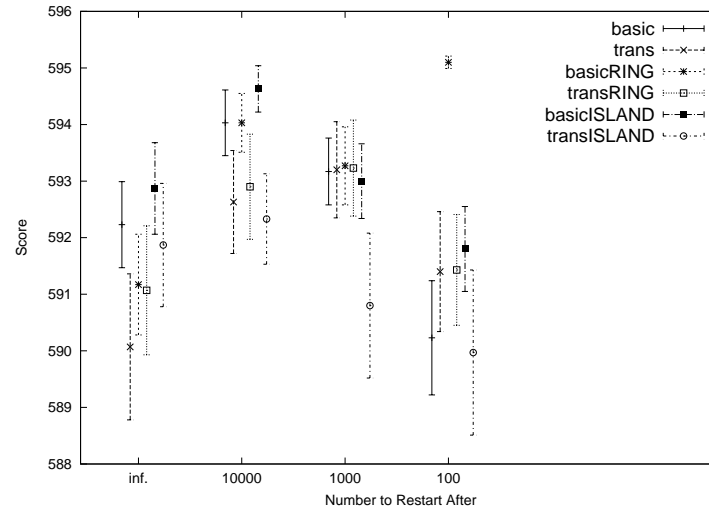


Figure B.468: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f25_305

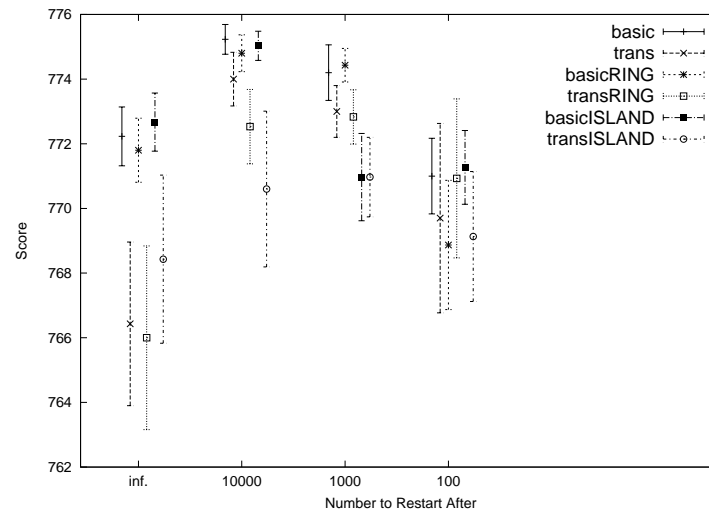


Figure B.469: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f25_400

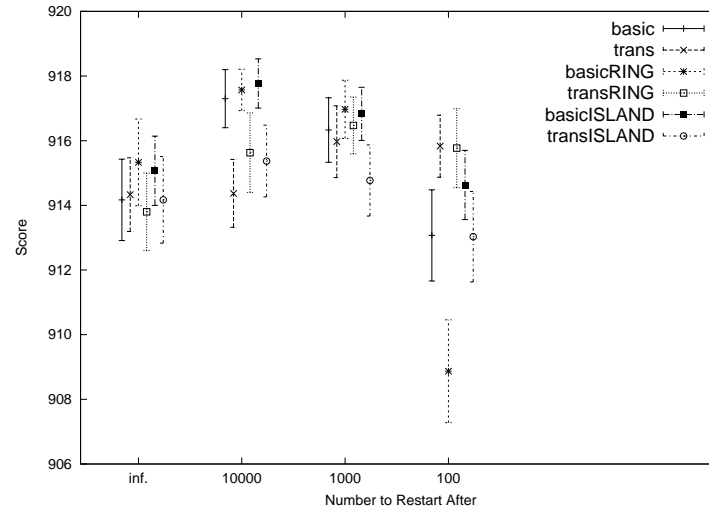


Figure B.470: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f25_500

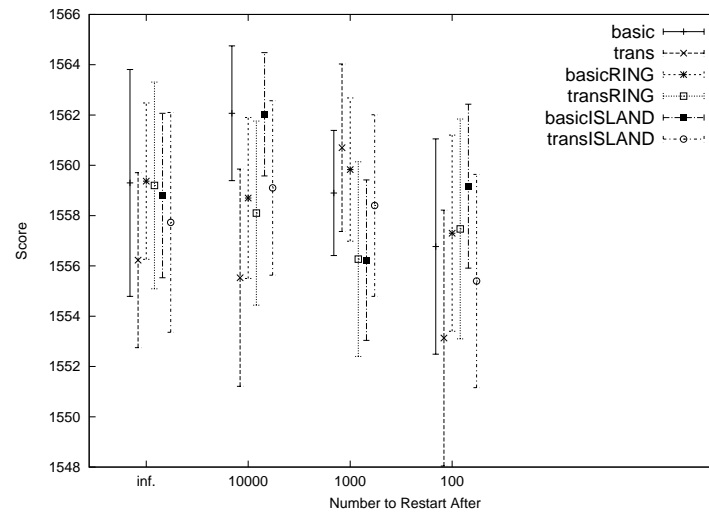


Figure B.471: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f50_315

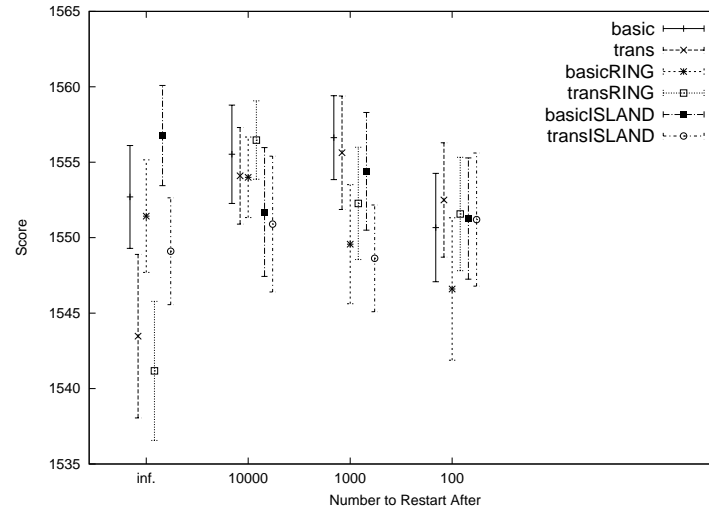


Figure B.472: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f50_412

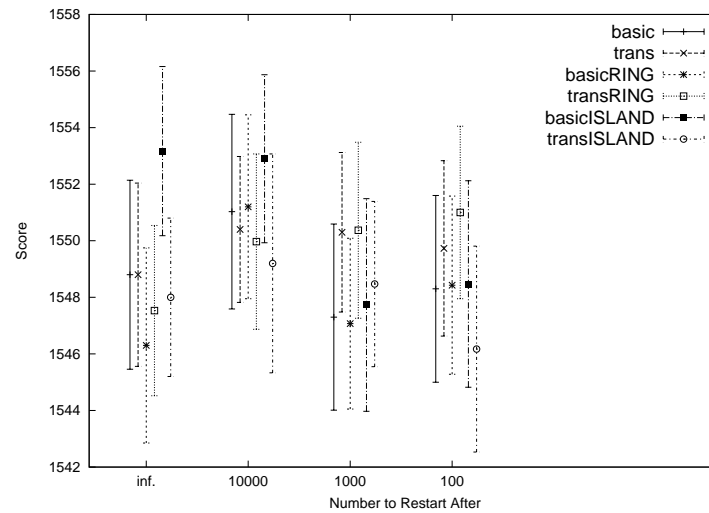


Figure B.473: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f50_498

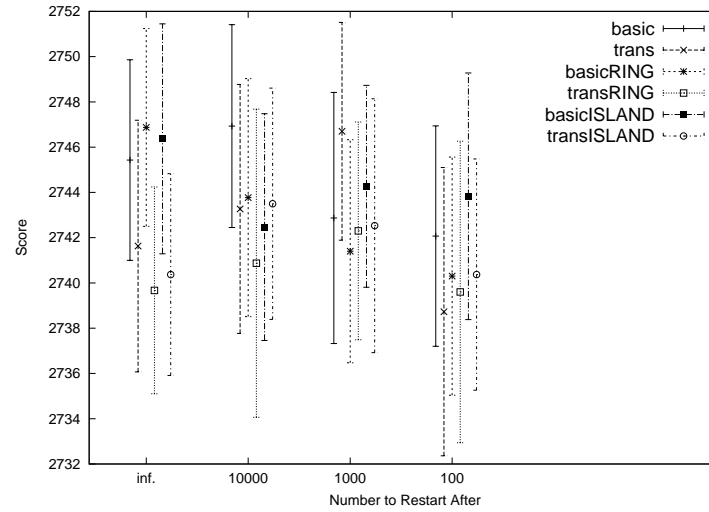


Figure B.474: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f100_307

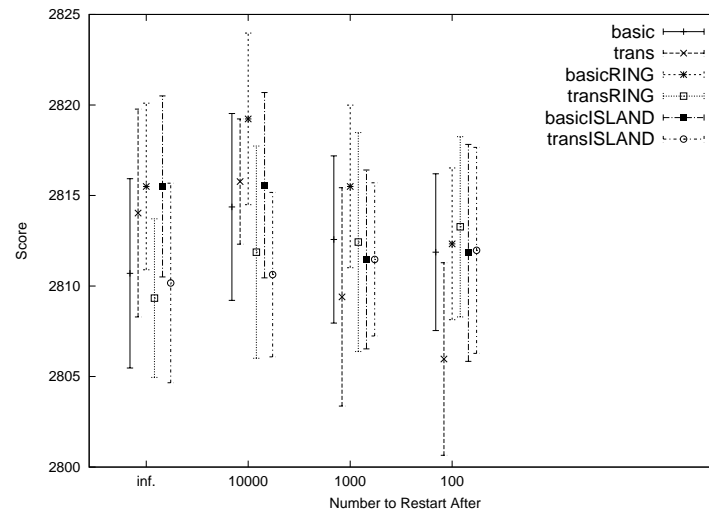


Figure B.475: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f100_415

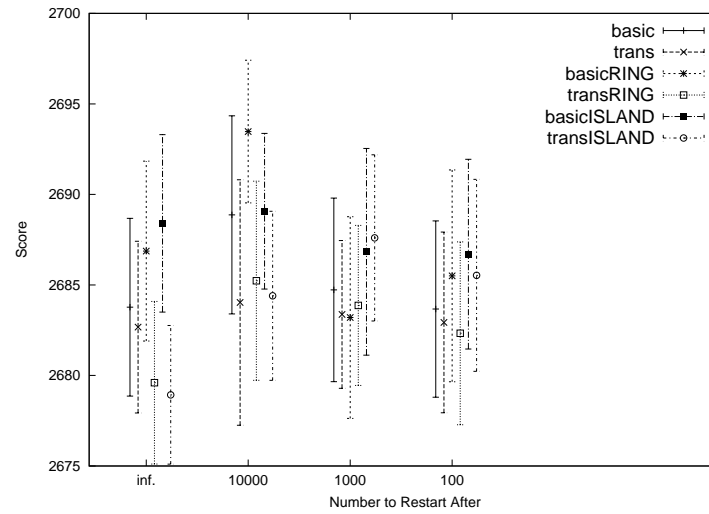


Figure B.476: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f100_512

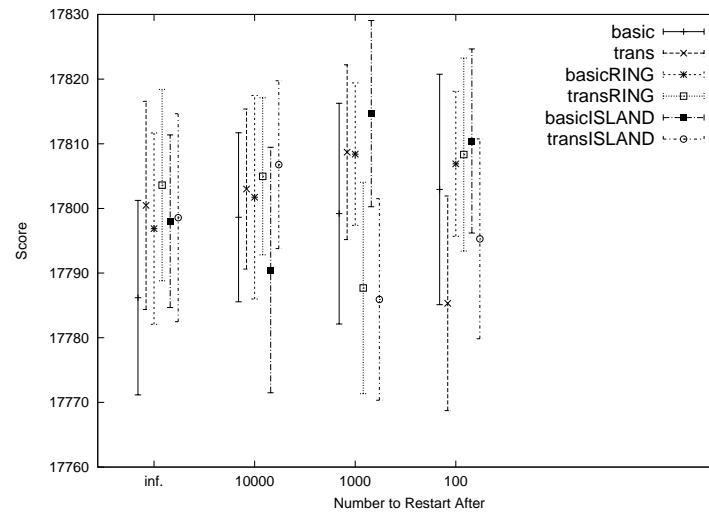


Figure B.477: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f508_354

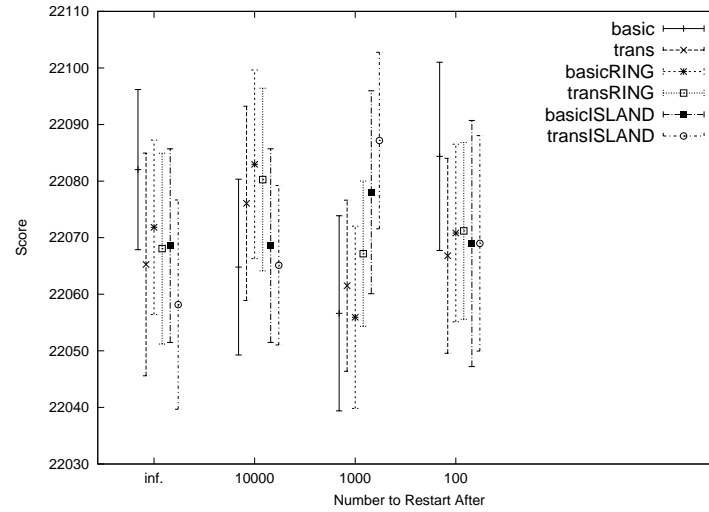


Figure B.478: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f635_350

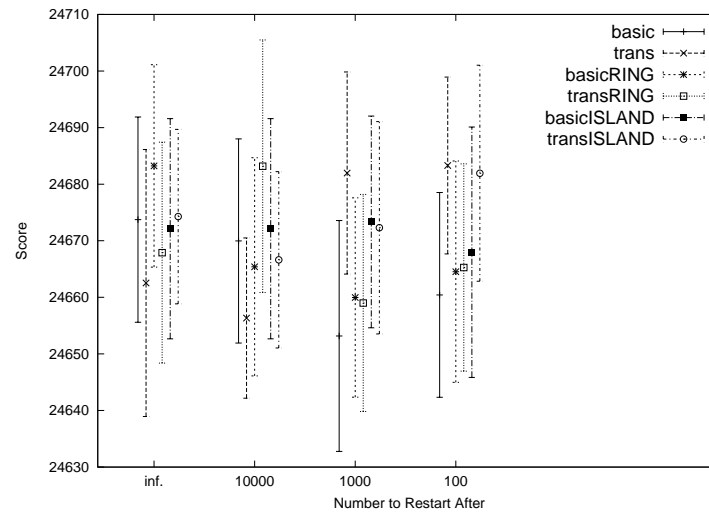


Figure B.479: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f737_355

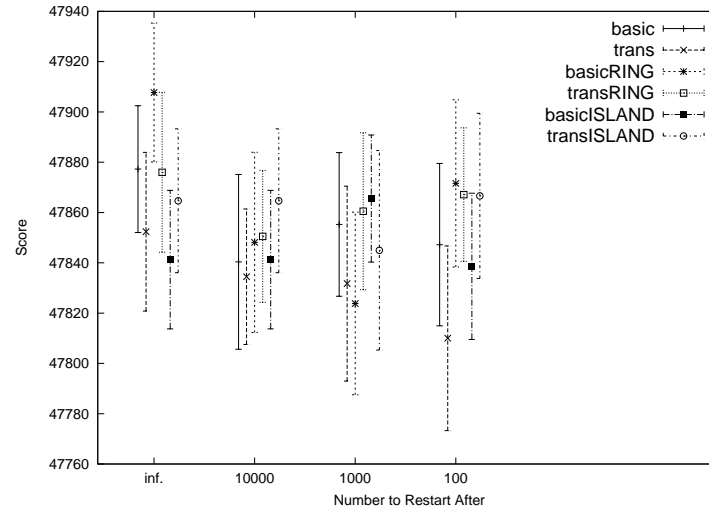


Figure B.480: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f1343_354

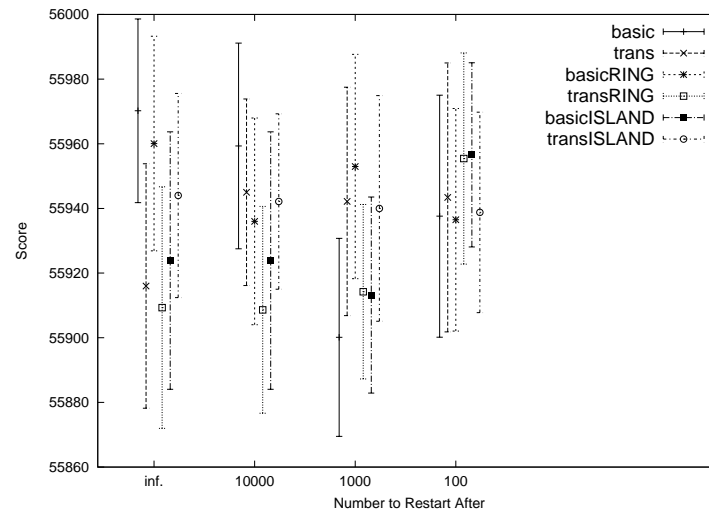


Figure B.481: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f1577_354

Results With Post Optimization and Forced Recentre

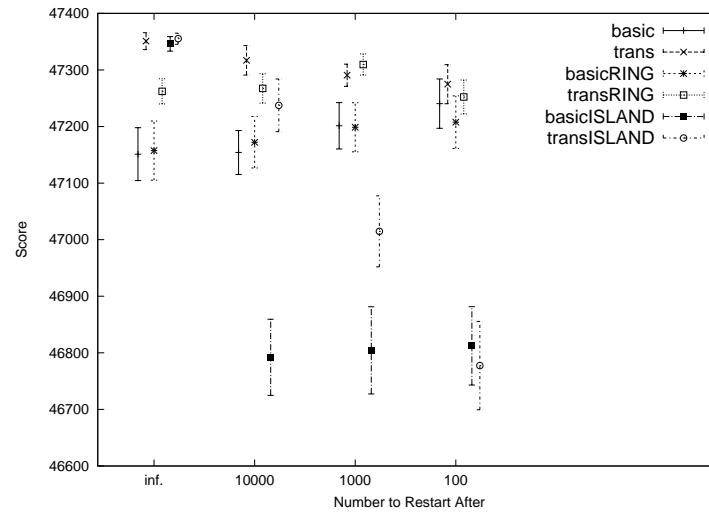


Figure B.482: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance acin1

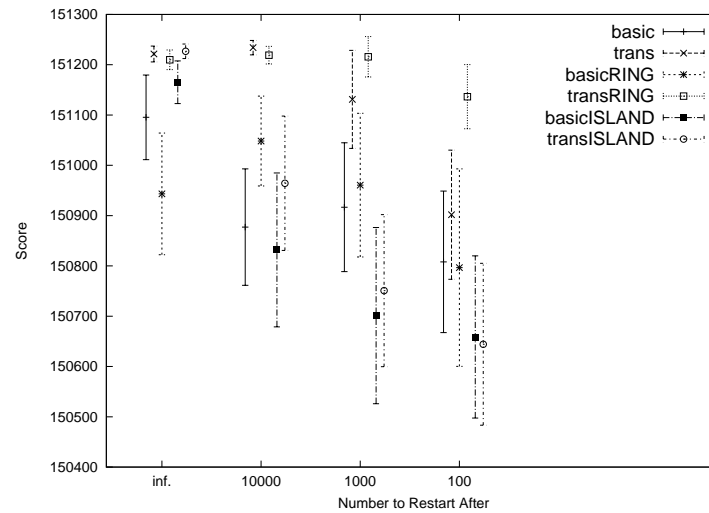


Figure B.483: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance acin2

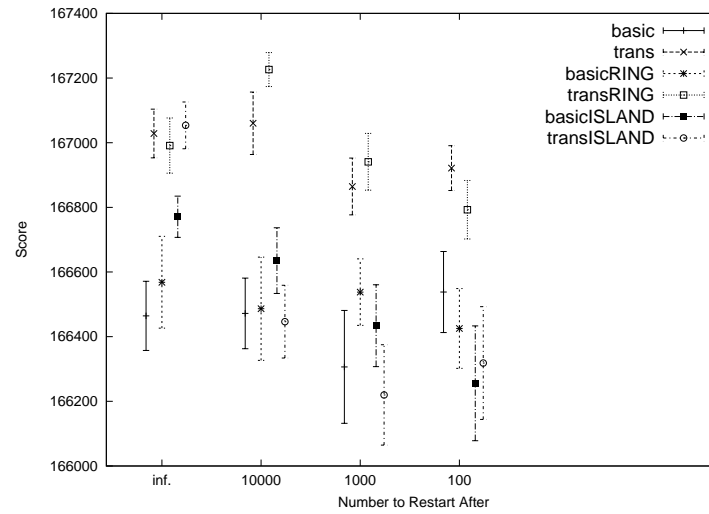


Figure B.484: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance acin3

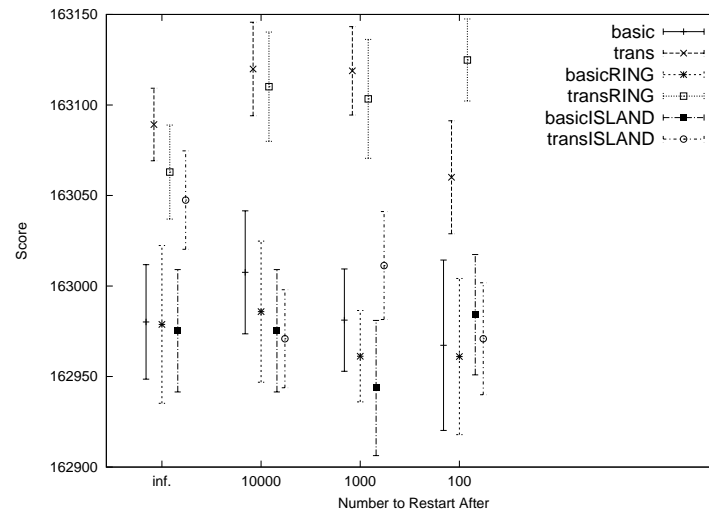


Figure B.485: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance acin5

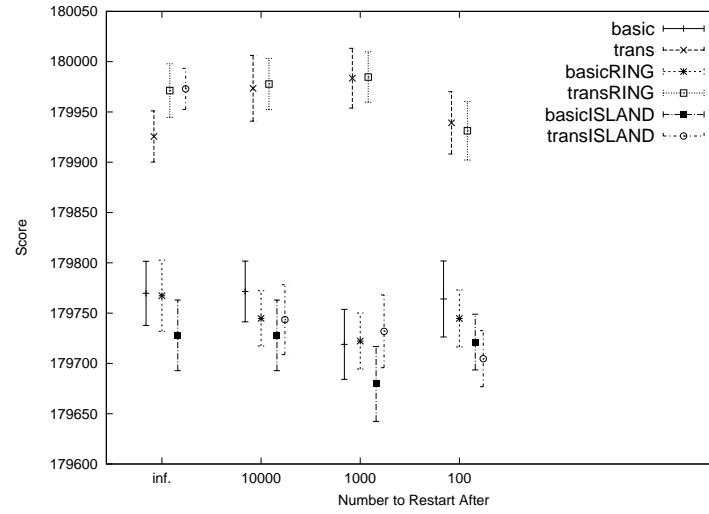


Figure B.486: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance acin7

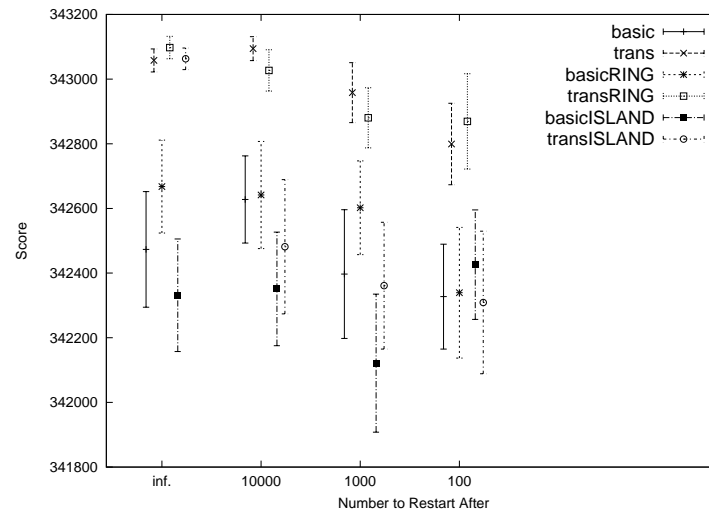


Figure B.487: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance acin9

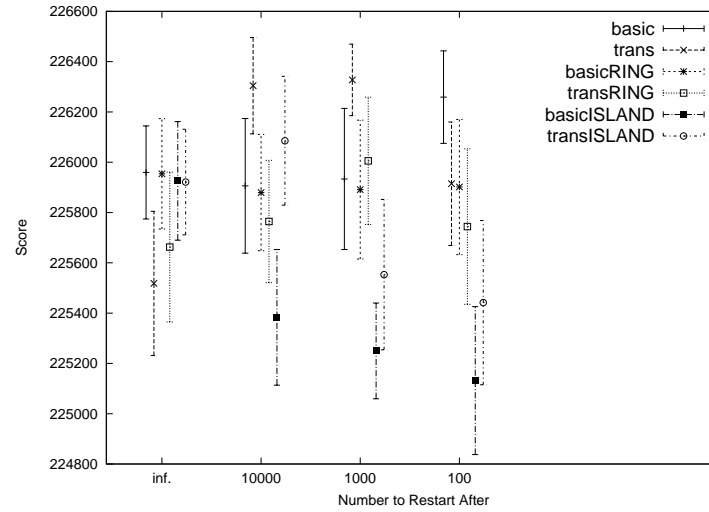


Figure B.488: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance bx842596_4

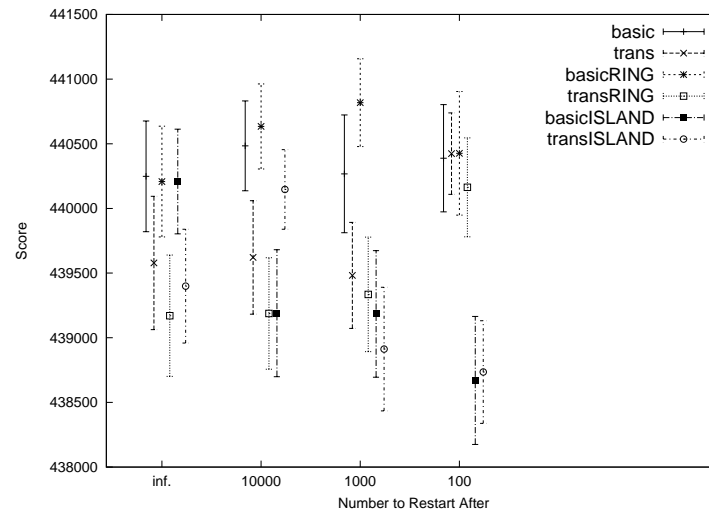


Figure B.489: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance bx842596_7

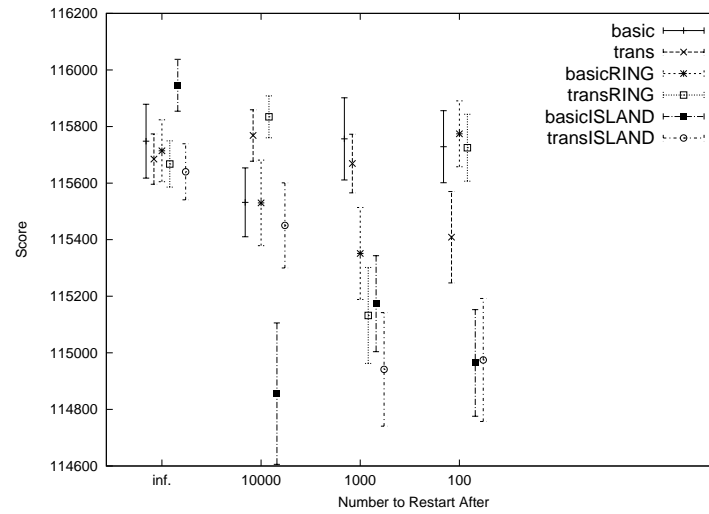


Figure B.490: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance j02459_7

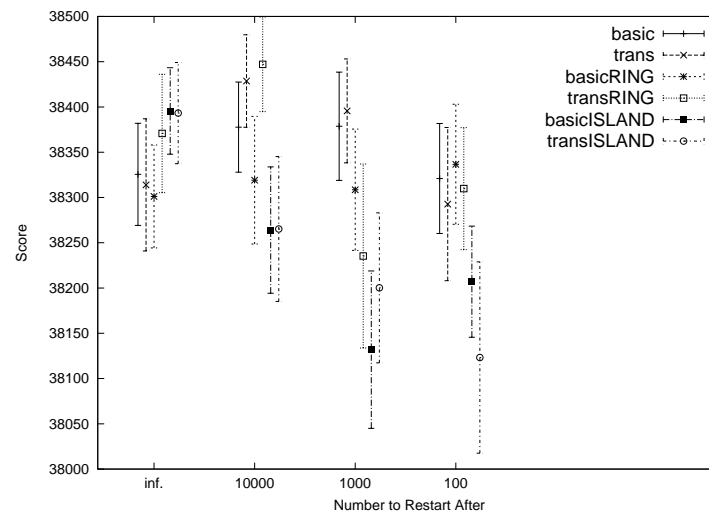


Figure B.491: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance m15421_5

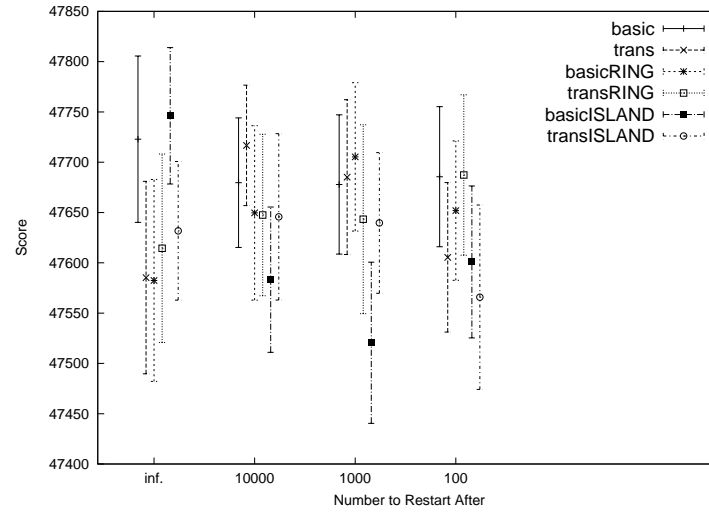


Figure B.492: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance m15421_6

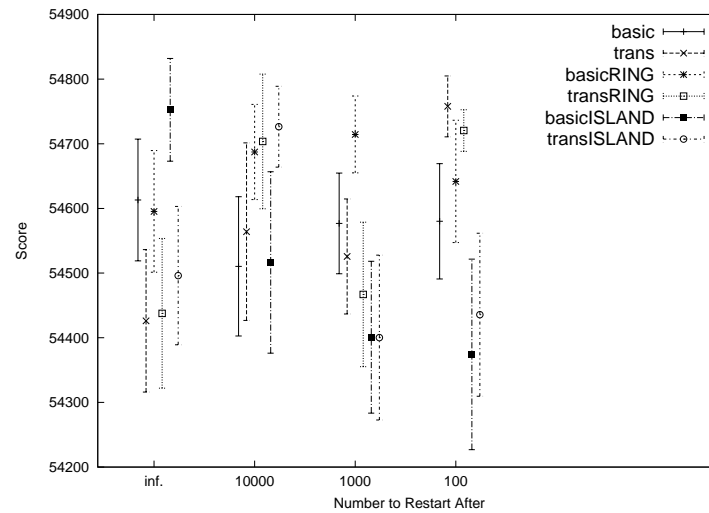


Figure B.493: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance m15421_7

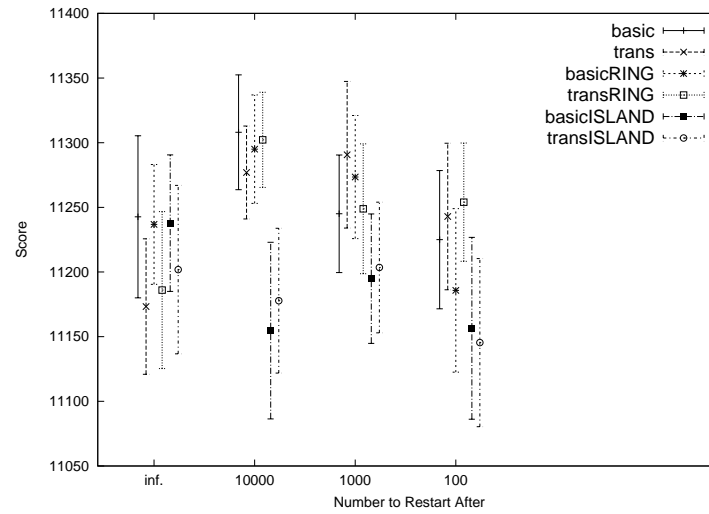


Figure B.494: Comparison of Best Results Between Algorithm Variaions with Post Optimizaiton and Forced Restart on Problem Instance x60189_4

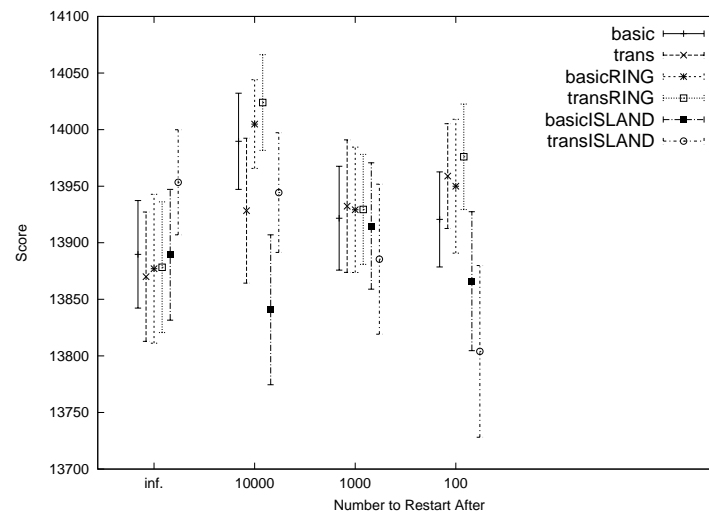


Figure B.495: Comparison of Best Results Between Algorithm Variaions with Post Optimizaiton and Forced Restart on Problem Instance x60189_5

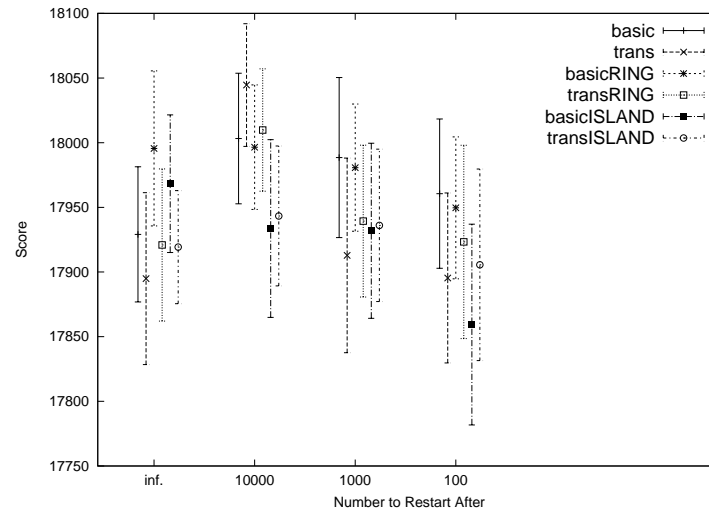


Figure B.496: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance x60189_6

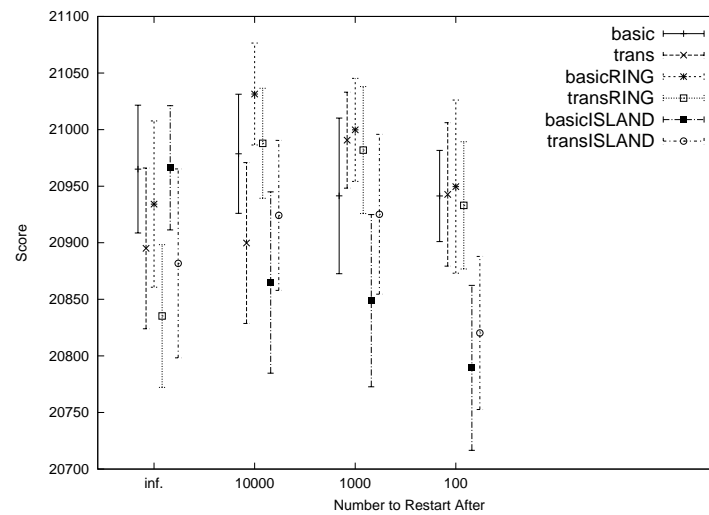


Figure B.497: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance x60189_7

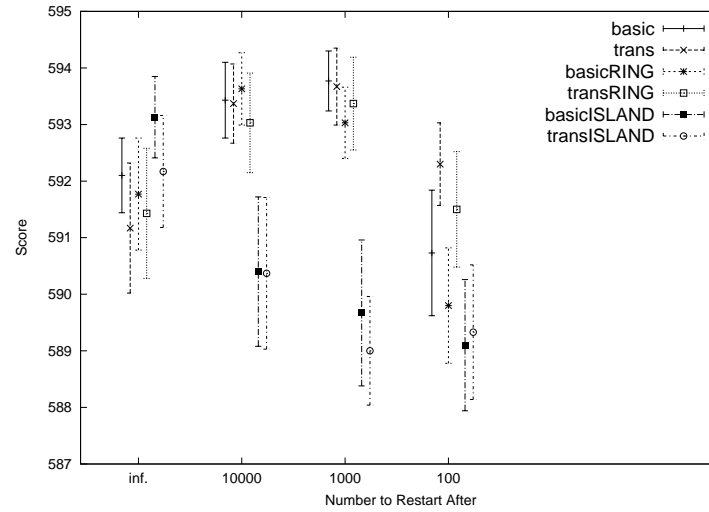


Figure B.498: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f25_305

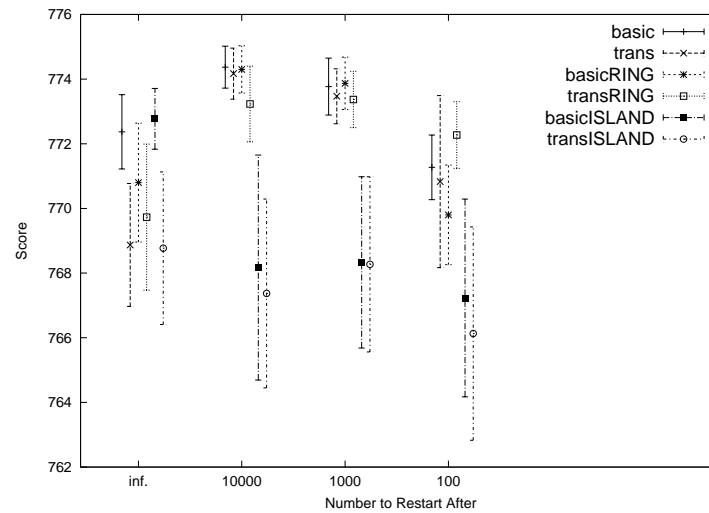


Figure B.499: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f25_400

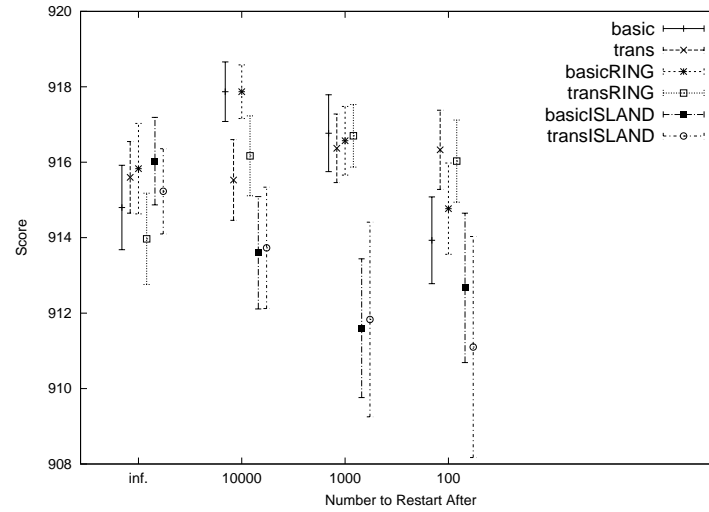


Figure B.500: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f25_500

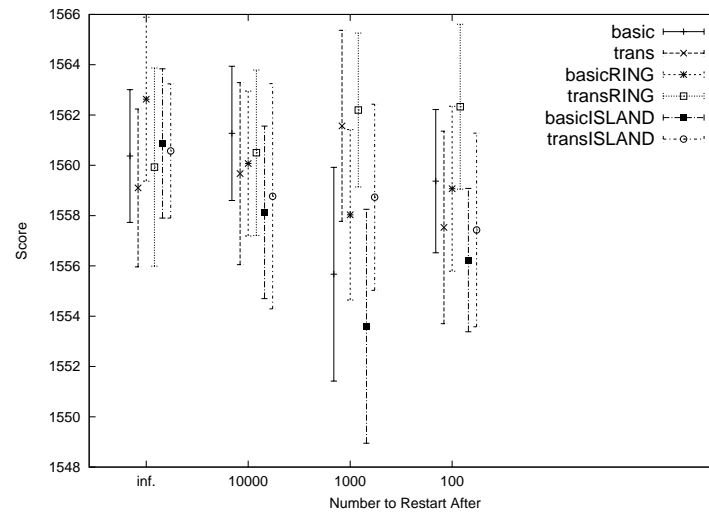


Figure B.501: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f50_315

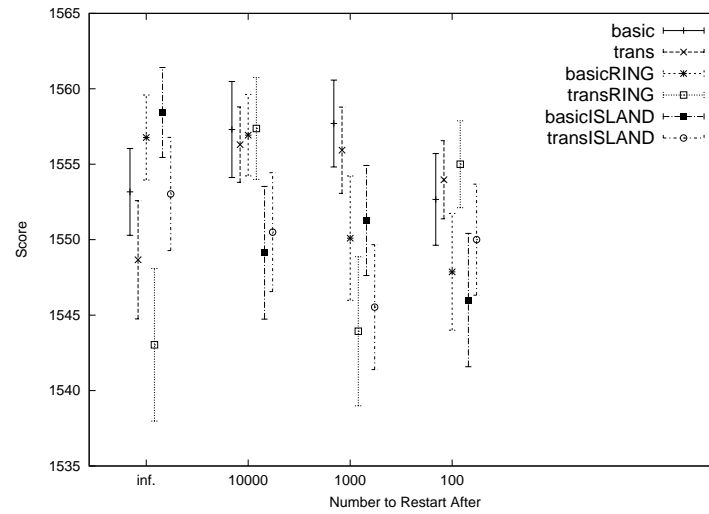


Figure B.502: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f50_412

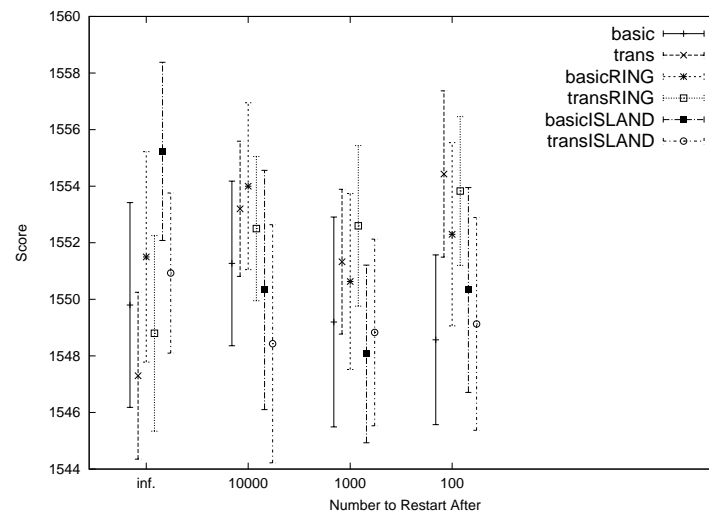


Figure B.503: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f50_498

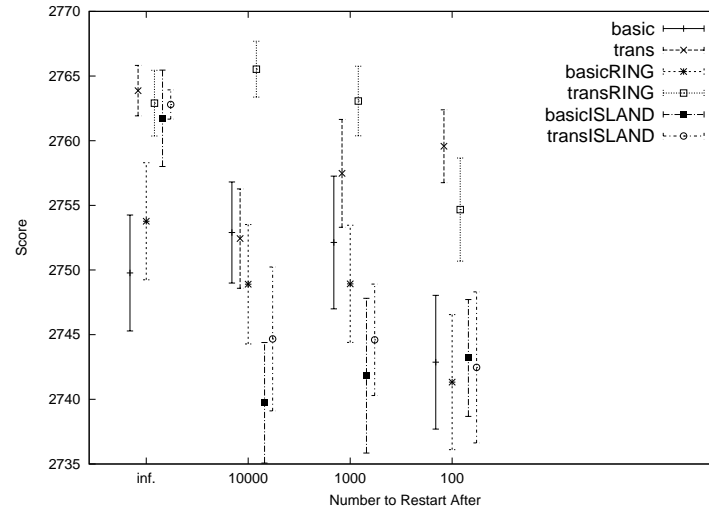


Figure B.504: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f100_307

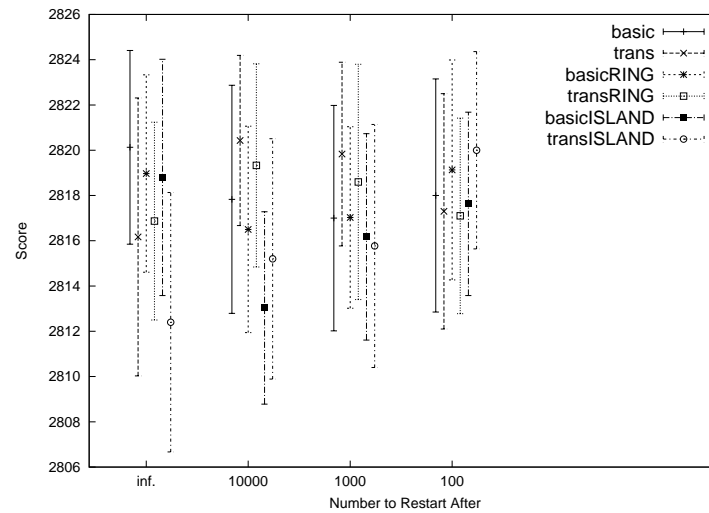


Figure B.505: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f100_415

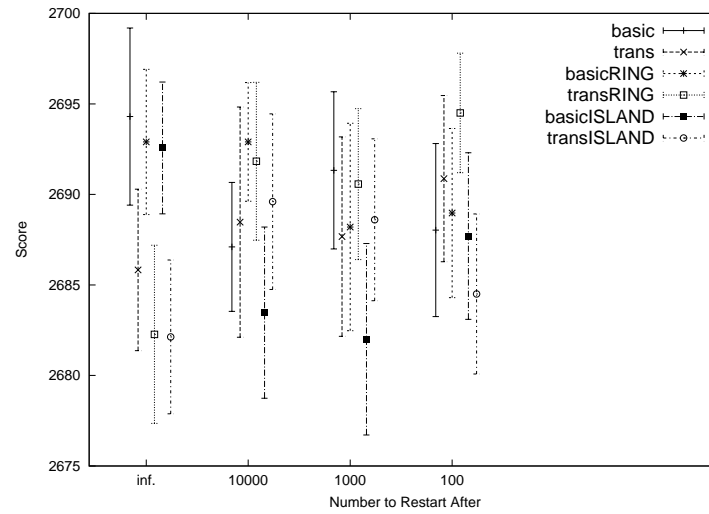


Figure B.506: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f100.512

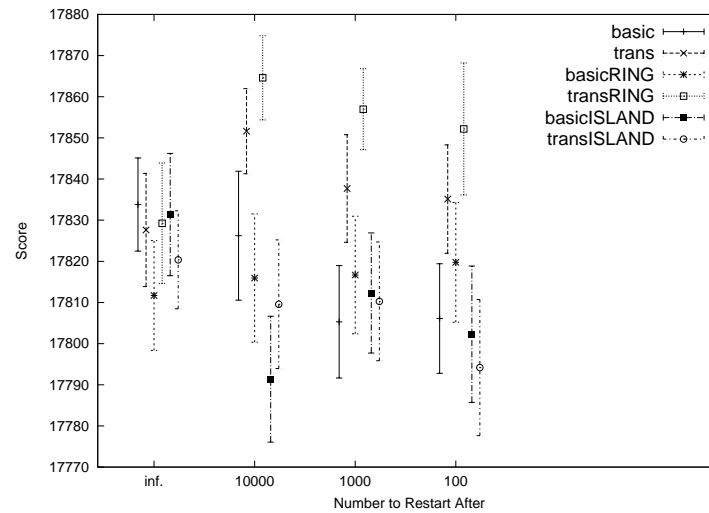


Figure B.507: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f508.354

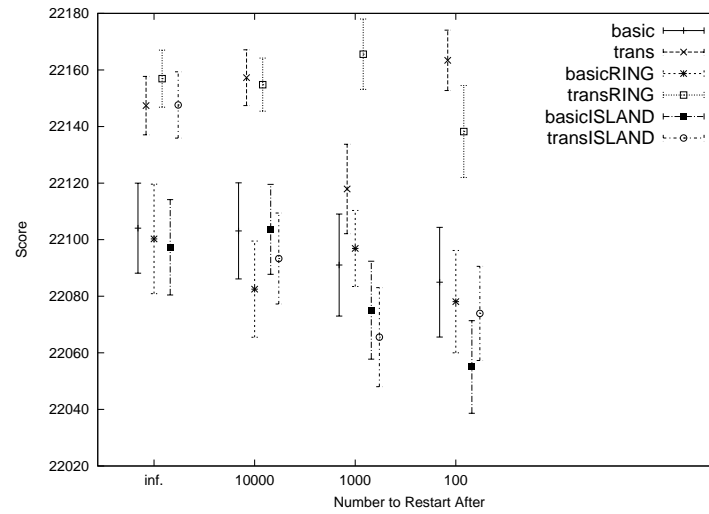


Figure B.508: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f635_350

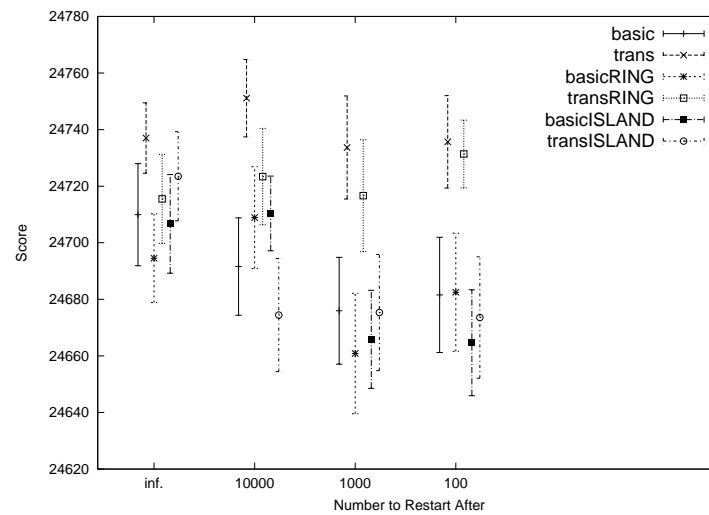


Figure B.509: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f737_355

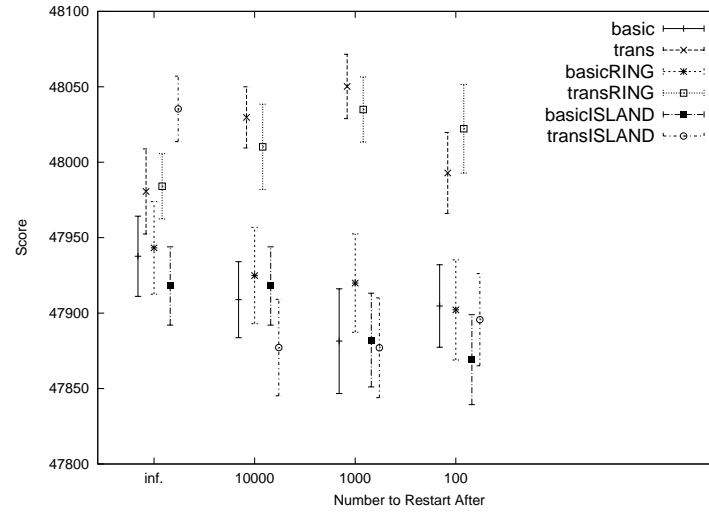


Figure B.510: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f1343.354

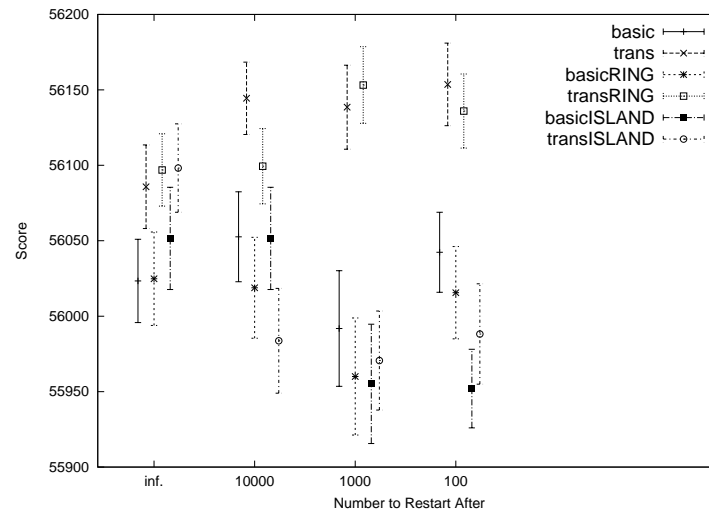


Figure B.511: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Restart on Problem Instance f1577.354

Comparison of No Forced and Forced Recentre Experimental Results

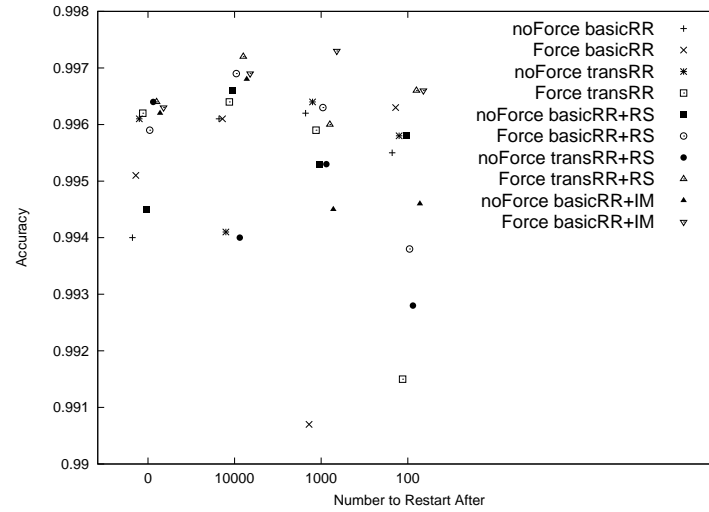


Figure B.512: Comparison of Second and Third Experimental Results on Problem Instance acin1

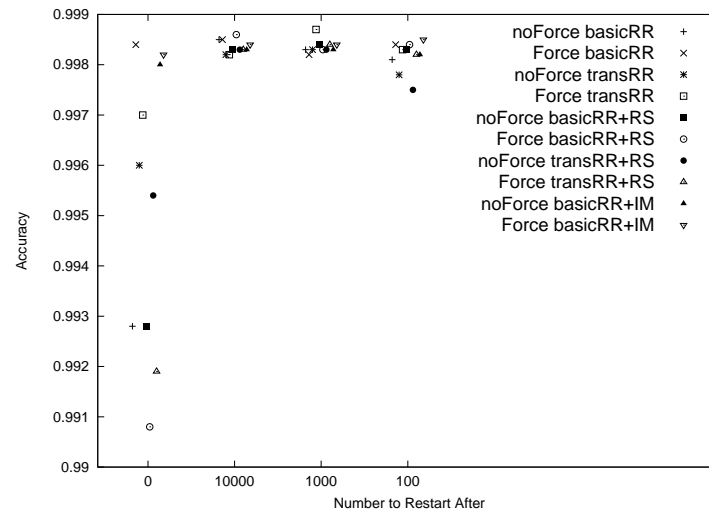


Figure B.513: Comparison of Second and Third Experimental Results on Problem Instance acin2

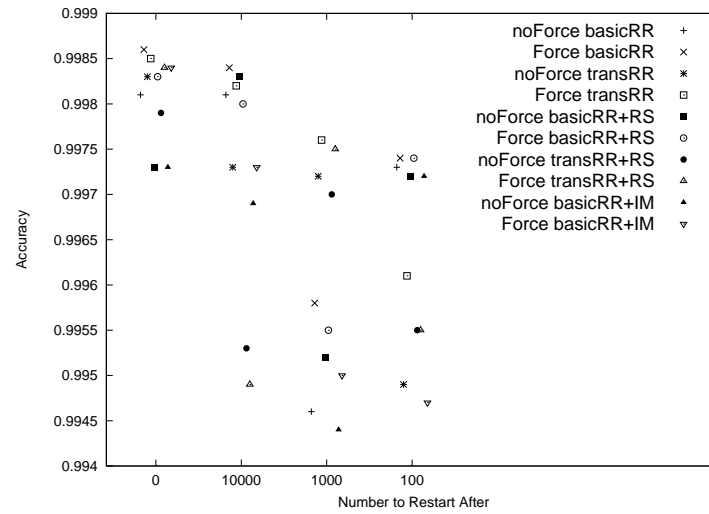


Figure B.514: Comparison of Second and Third Experimental Results on Problem Instance acin3

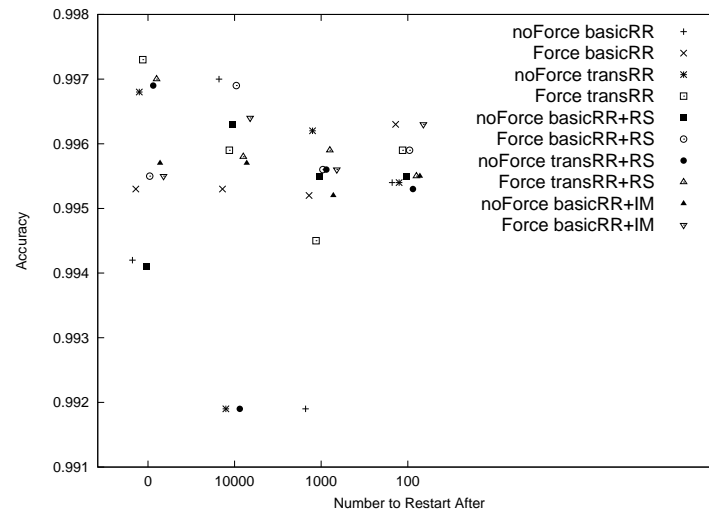


Figure B.515: Comparison of Second and Third Experimental Results on Problem Instance acin5

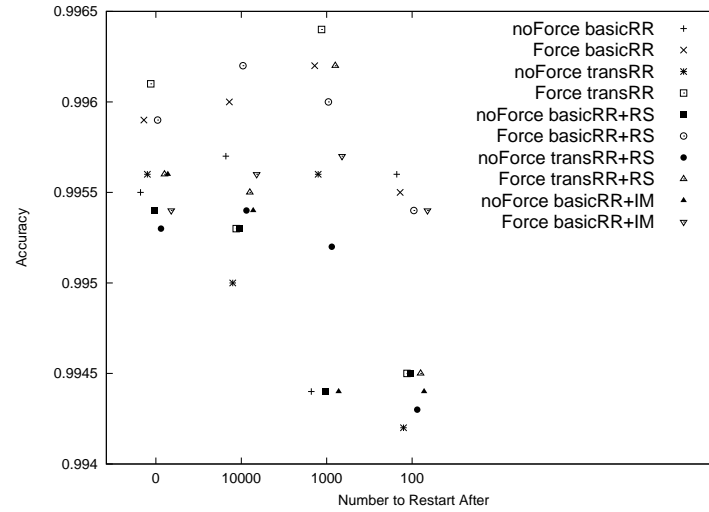


Figure B.516: Comparison of Second and Third Experimental Results on Problem Instance acin7

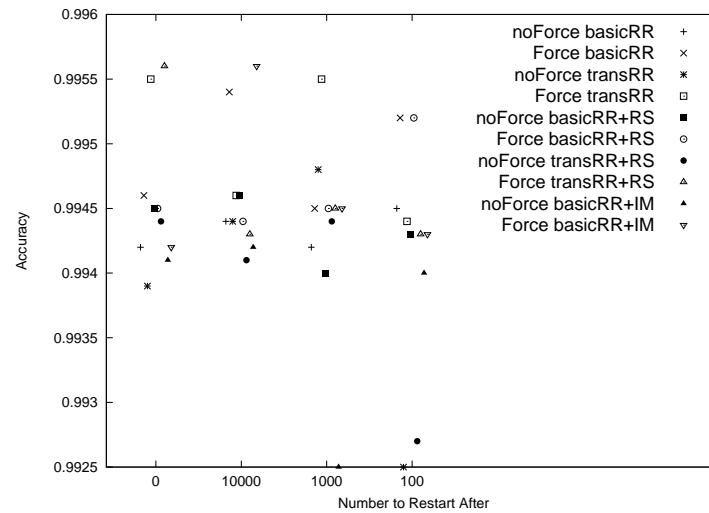


Figure B.517: Comparison of Second and Third Experimental Results on Problem Instance acin9

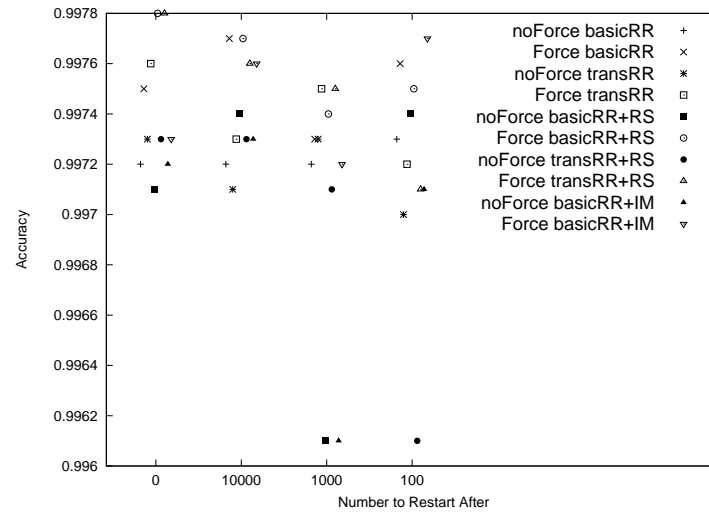


Figure B.518: Comparison of Second and Third Experimental Results on Problem Instance bx842596_4

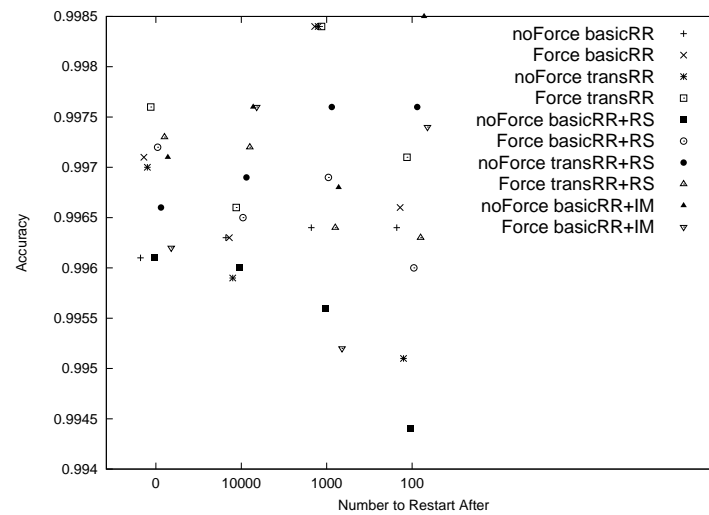


Figure B.519: Comparison of Second and Third Experimental Results on Problem Instance bx842596_7

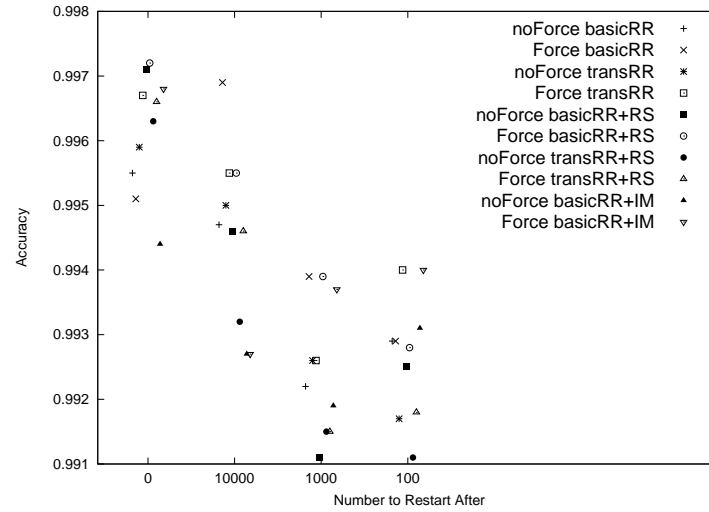


Figure B.520: Comparison of Second and Third Experimental Results on Problem Instance j02459_7

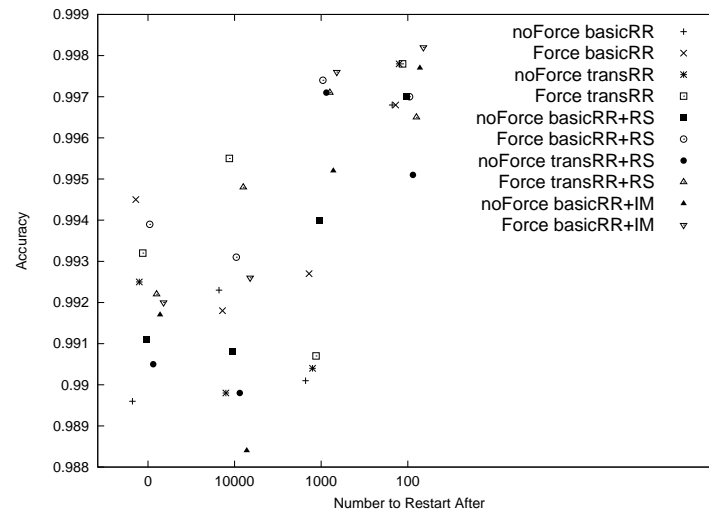


Figure B.521: Comparison of Second and Third Experimental Results on Problem Instance m15421_5

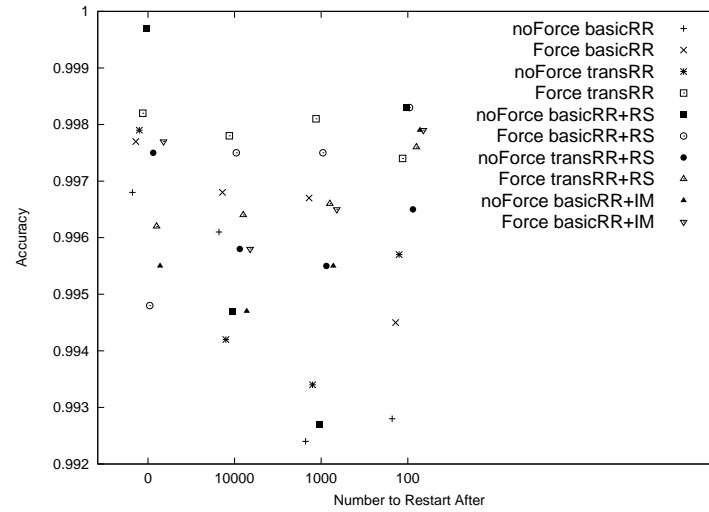


Figure B.522: Comparison of Second and Third Experimental Results on Problem Instance m15421_6

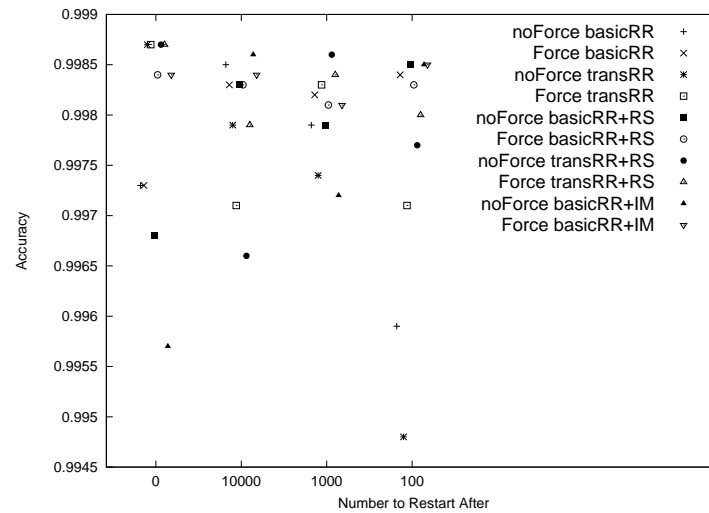


Figure B.523: Comparison of Second and Third Experimental Results on Problem Instance m15421_7

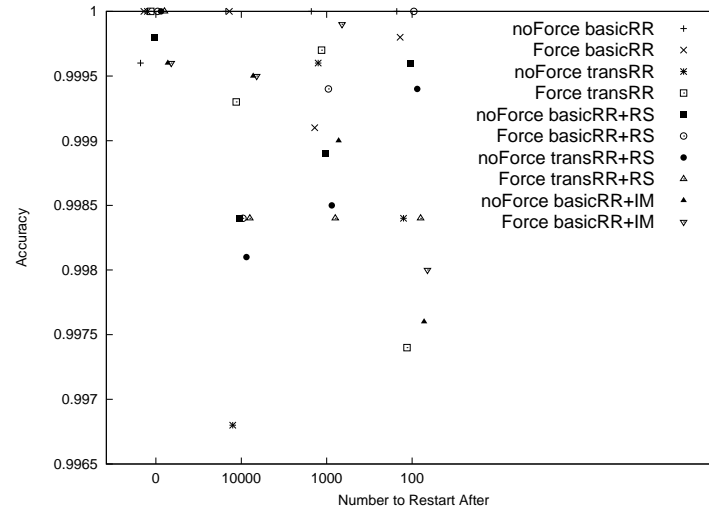


Figure B.524: Comparison of Second and Third Experimental Results on Problem Instance x60189_4

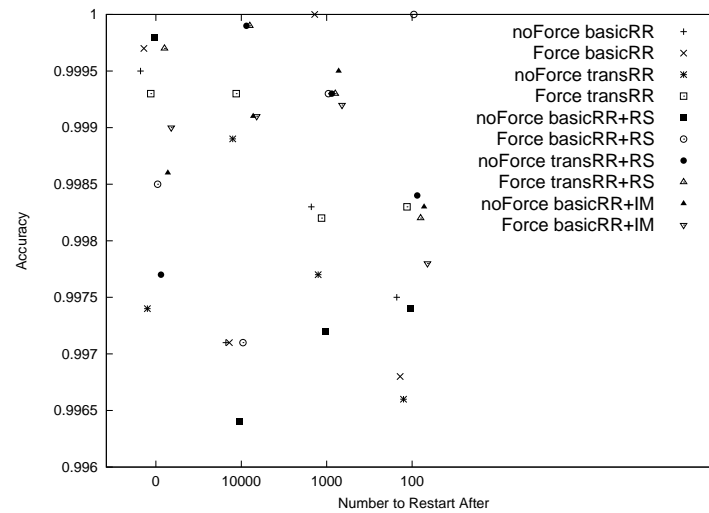


Figure B.525: Comparison of Second and Third Experimental Results on Problem Instance x60189_5

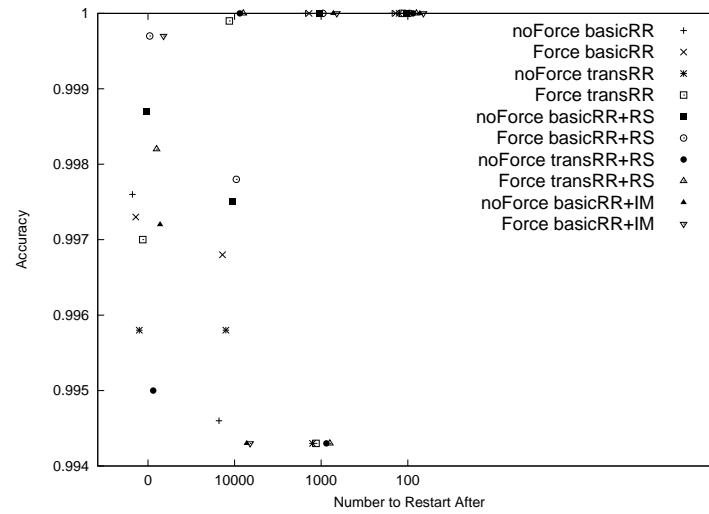


Figure B.526: Comparison of Second and Third Experimental Results on Problem Instance x60189_6

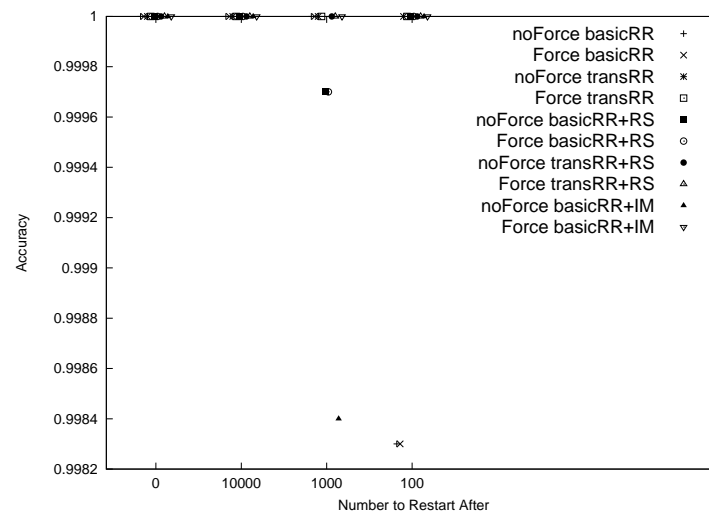


Figure B.527: Comparison of Second and Third Experimental Results on Problem Instance x60189_7

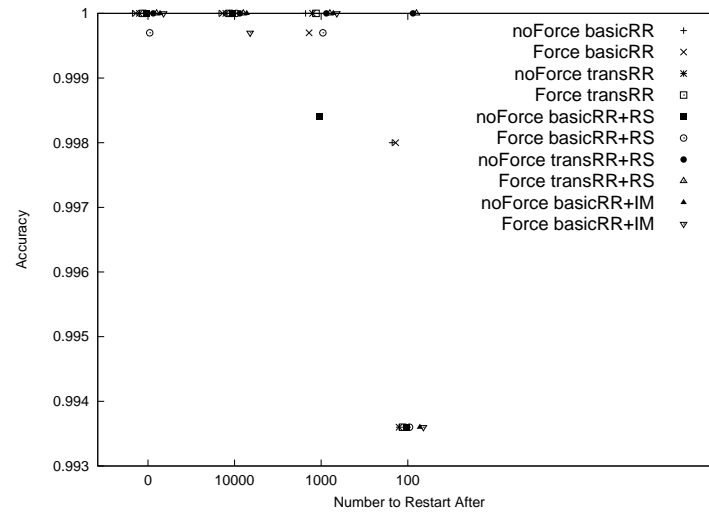


Figure B.528: Comparison of Second and Third Experimental Results on Problem Instance f25_305

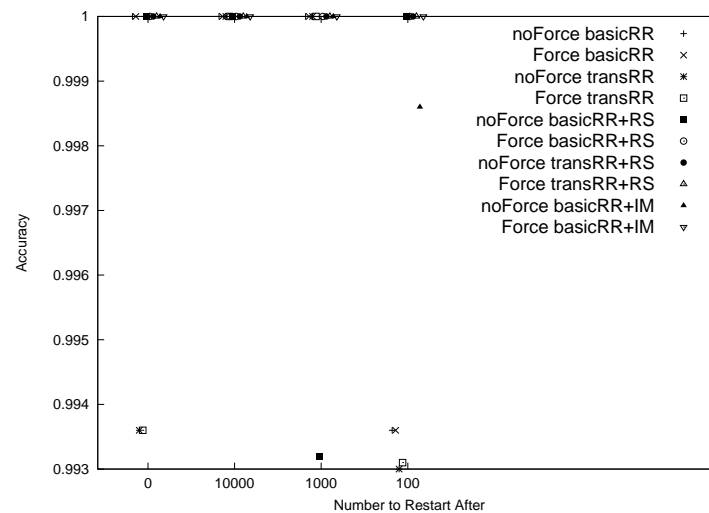


Figure B.529: Comparison of Second and Third Experimental Results on Problem Instance f25_400

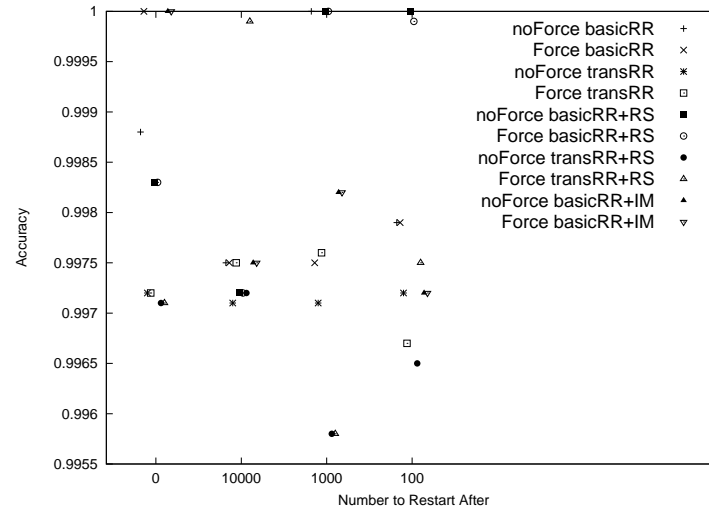


Figure B.530: Comparison of Second and Third Experimental Results on Problem Instance f25_500

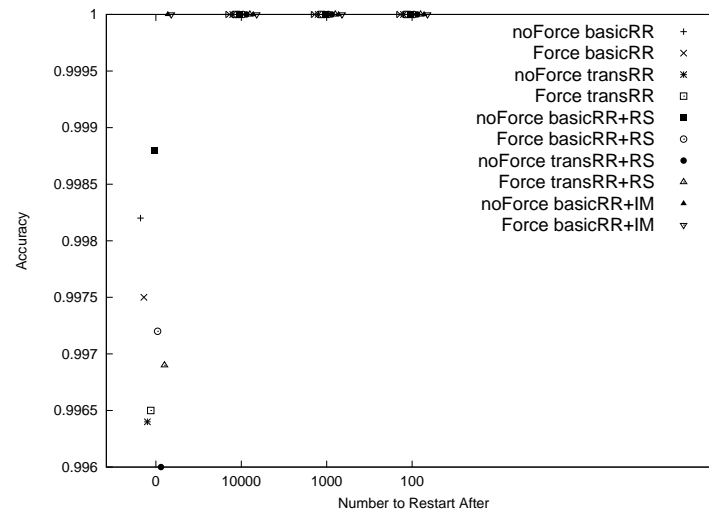


Figure B.531: Comparison of Second and Third Experimental Results on Problem Instance f50_315

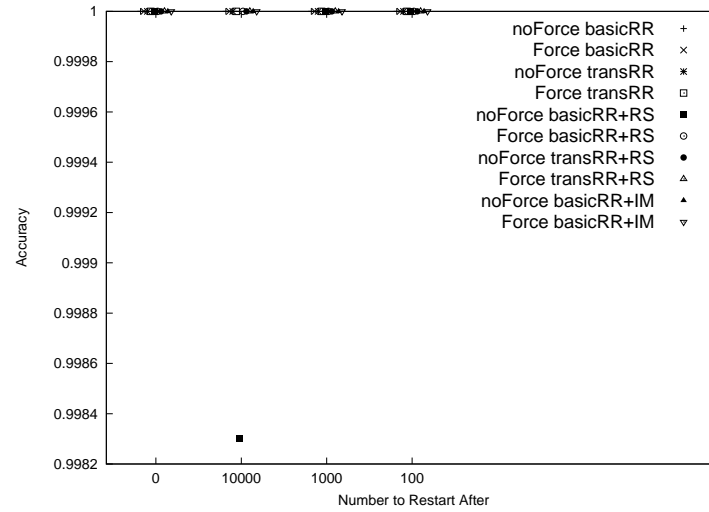


Figure B.532: Comparison of Second and Third Experimental Results on Problem Instance f50_412

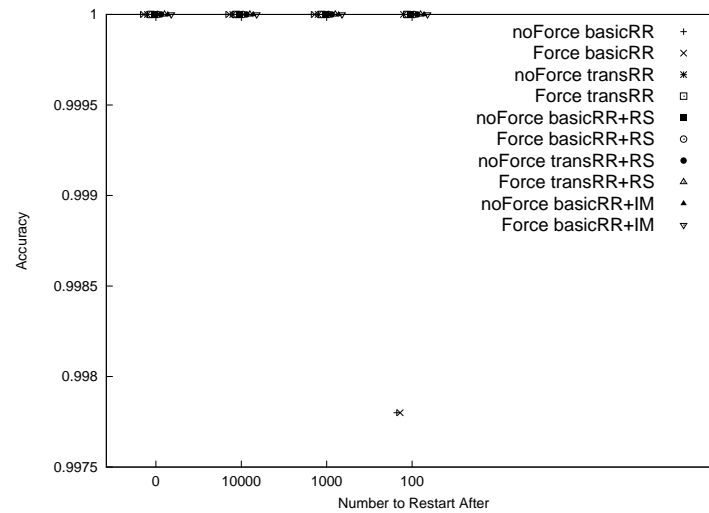


Figure B.533: Comparison of Second and Third Experimental Results on Problem Instance f50_498

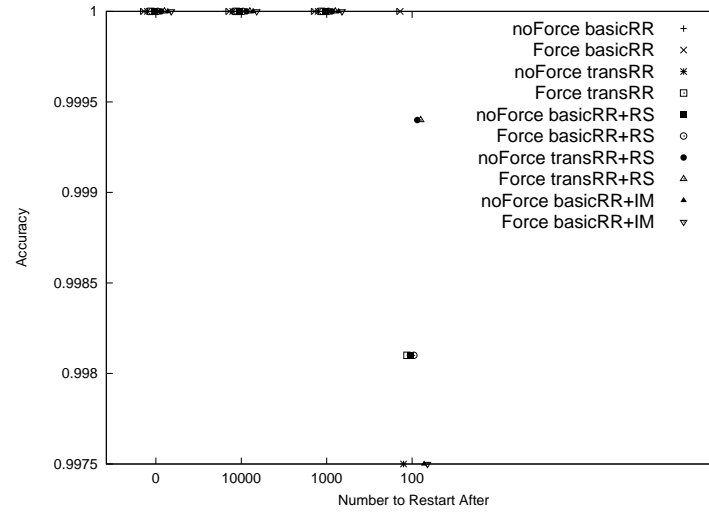


Figure B.534: Comparison of Second and Third Experimental Results on Problem Instance f100_307

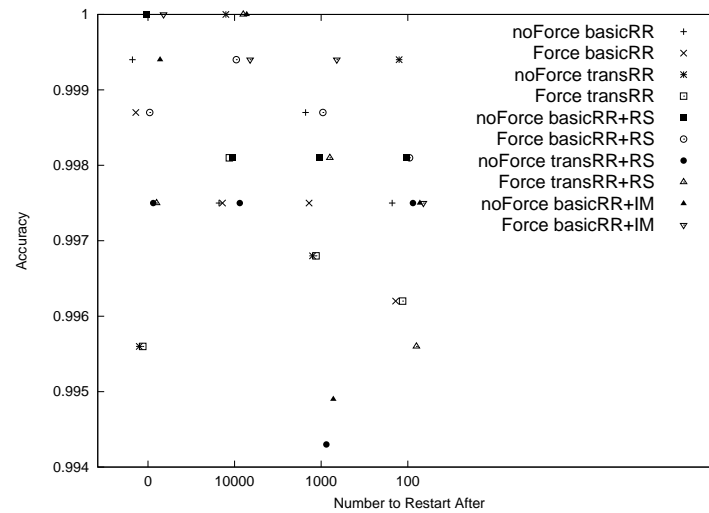


Figure B.535: Comparison of Second and Third Experimental Results on Problem Instance f100_415

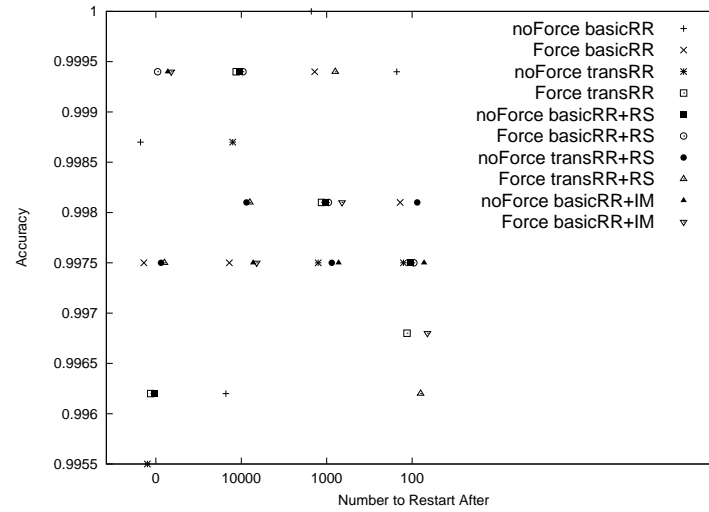


Figure B.536: Comparison of Second and Third Experimental Results on Problem Instance f100_512

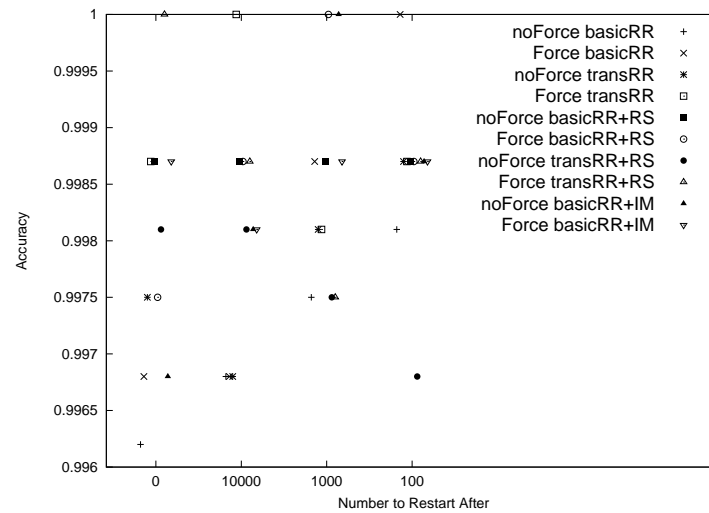


Figure B.537: Comparison of Second and Third Experimental Results on Problem Instance f508_354

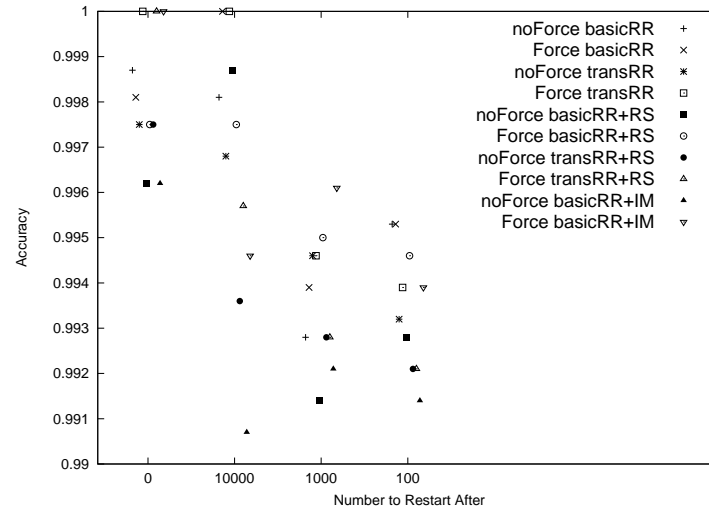


Figure B.538: Comparison of Second and Third Experimental Results on Problem Instance f635_350

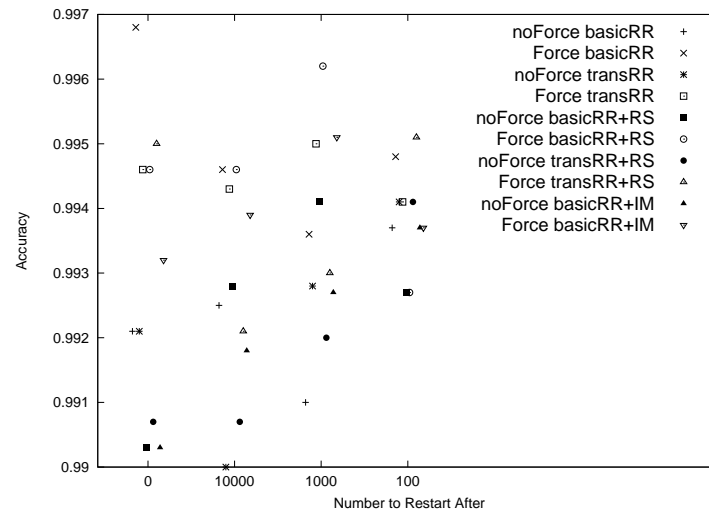


Figure B.539: Comparison of Second and Third Experimental Results on Problem Instance f737_355

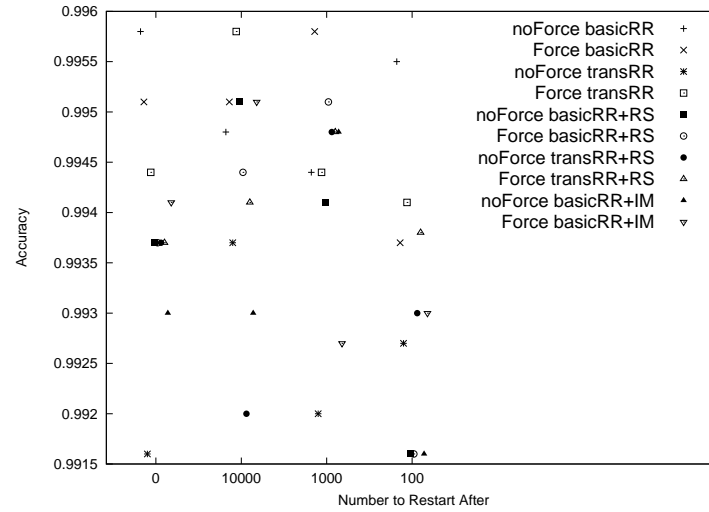


Figure B.540: Comparison of Second and Third Experimental Results on Problem Instance f1343_354

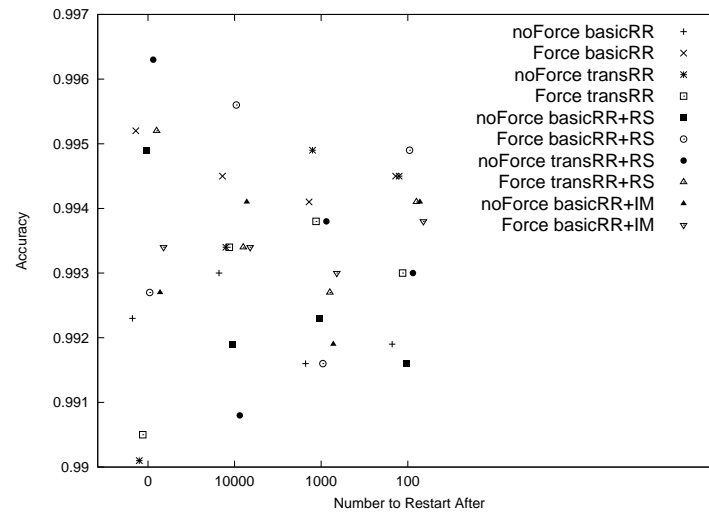


Figure B.541: Comparison of Second and Third Experimental Results on Problem Instance f1577_354

**Comparison of Second and Third Set of Experimental Results With Forced
Restarts**

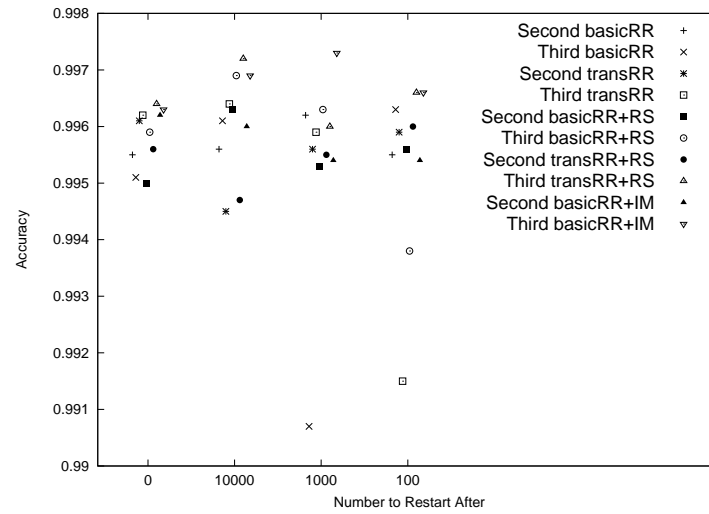


Figure B.542: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin1

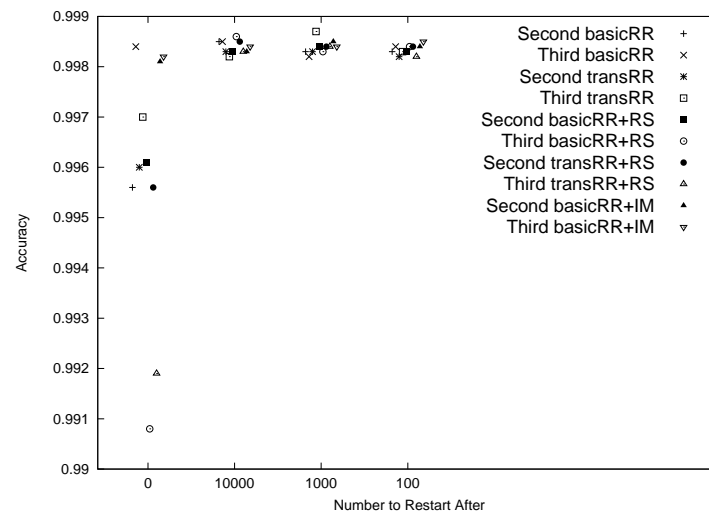


Figure B.543: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin2

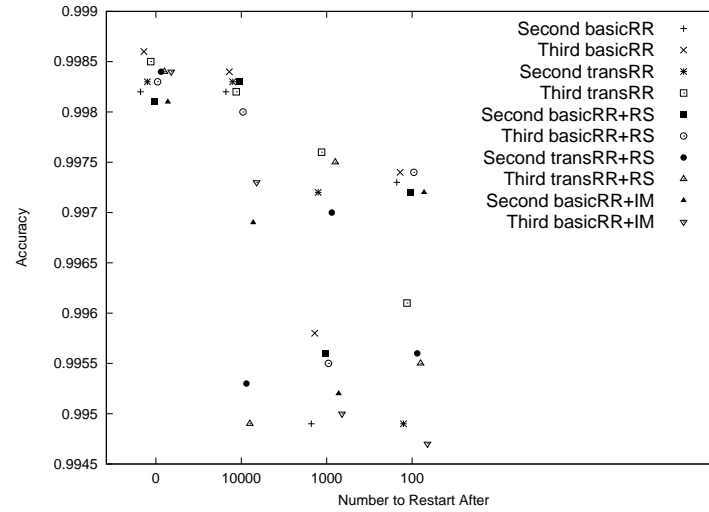


Figure B.544: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin3

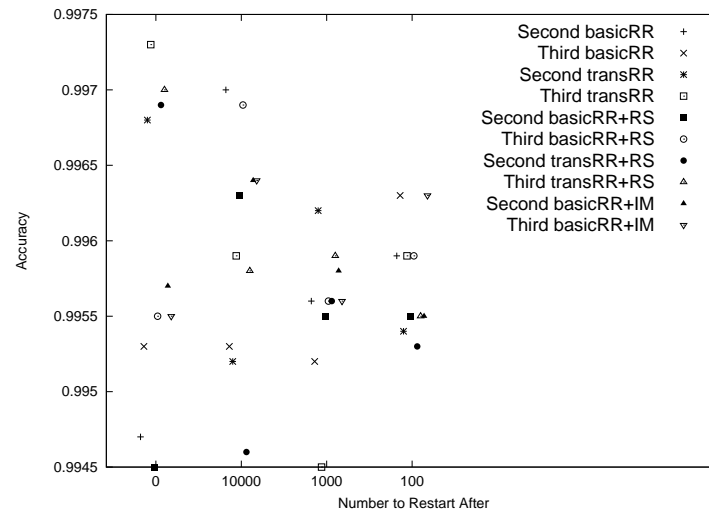


Figure B.545: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin5

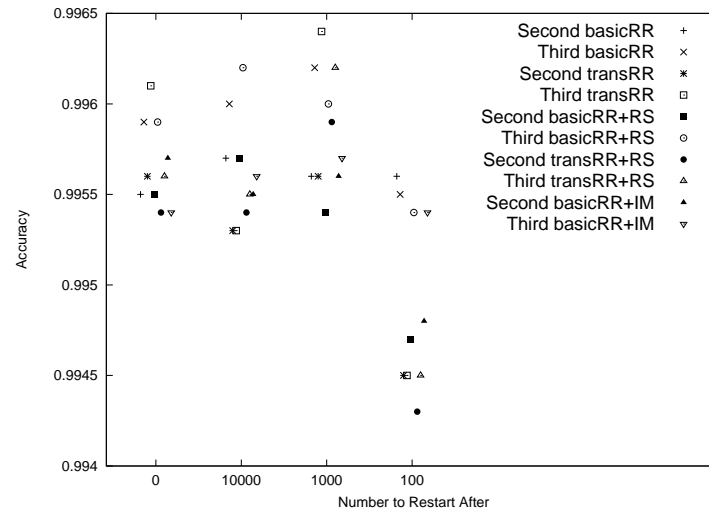


Figure B.546: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin7

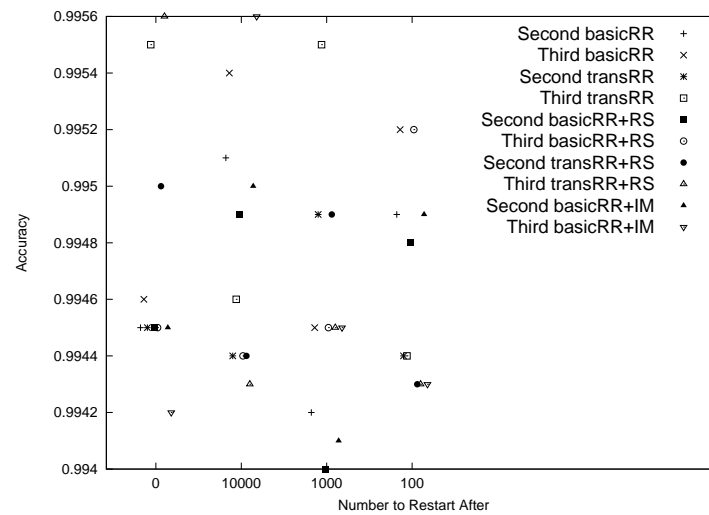


Figure B.547: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin9

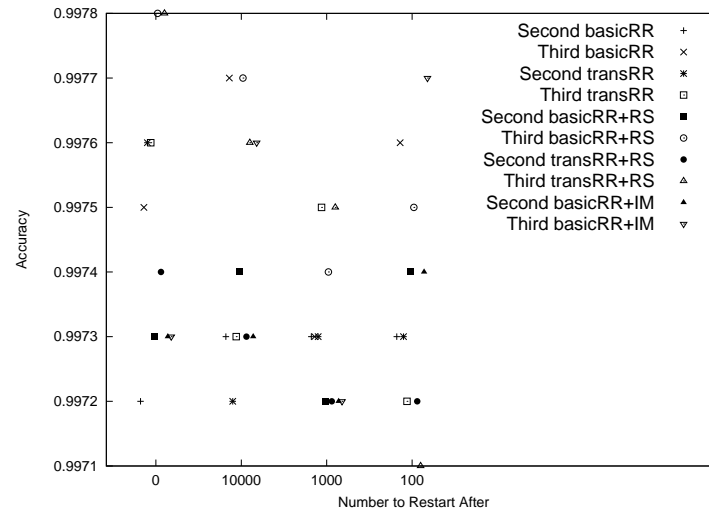


Figure B.548: Comparison of No Forced Recentre and Forced Recentre on Problem Instance bx842596_4

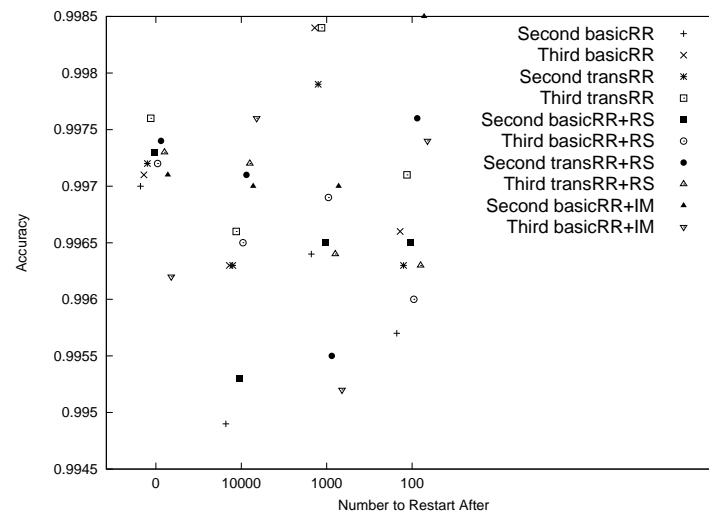


Figure B.549: Comparison of No Forced Recentre and Forced Recentre on Problem Instance bx842596_7

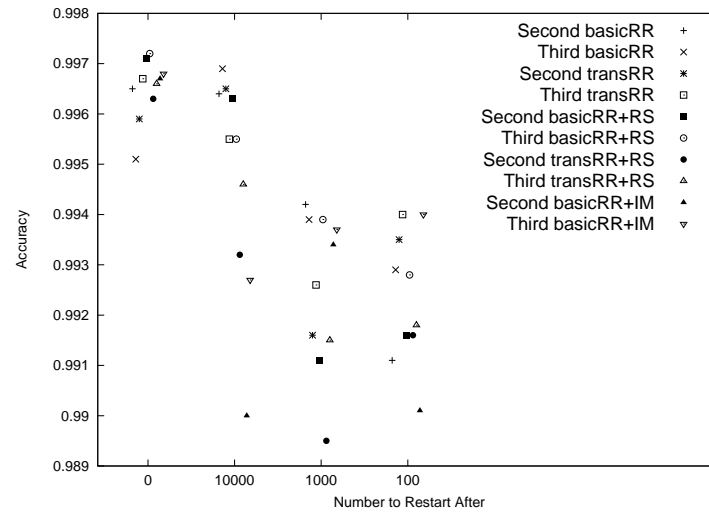


Figure B.550: Comparison of No Forced Recentre and Forced Recentre on Problem Instance j02459_7

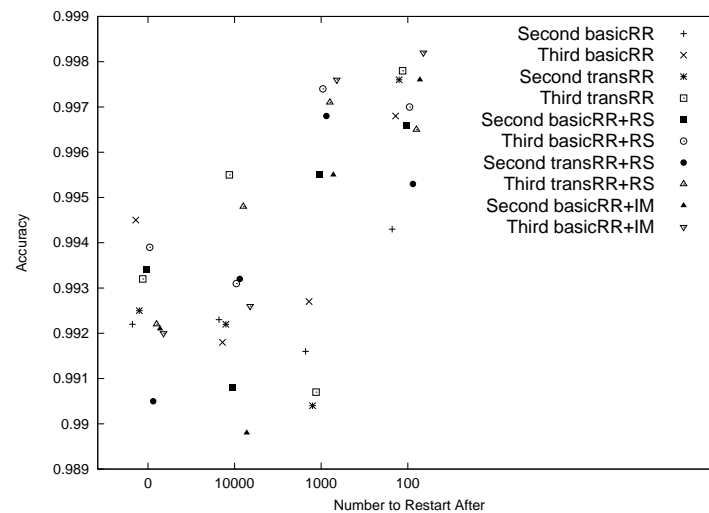


Figure B.551: Comparison of No Forced Recentre and Forced Recentre on Problem Instance m15421_5

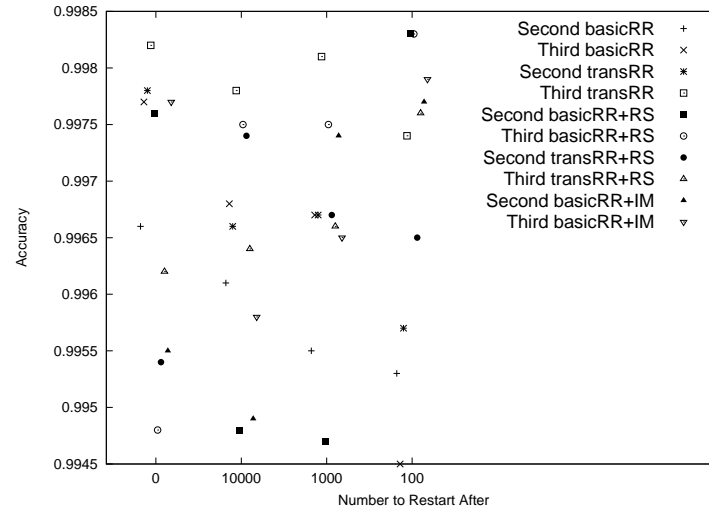


Figure B.552: Comparison of No Forced Recentre and Forced Recentre on Problem Instance m15421_6

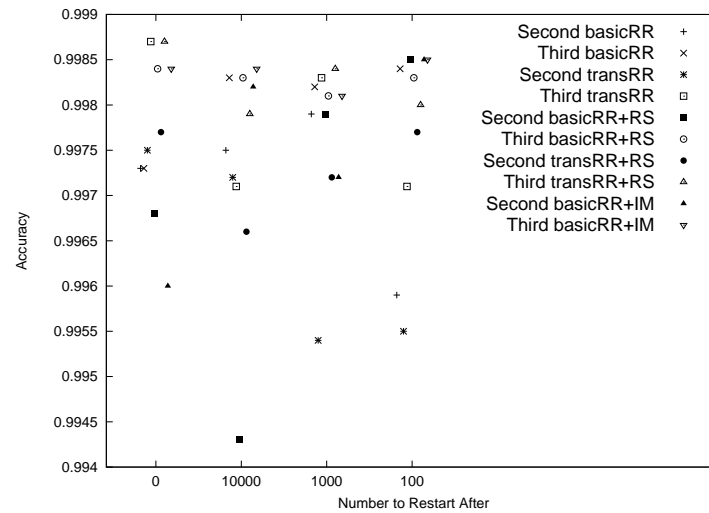


Figure B.553: Comparison of No Forced Recentre and Forced Recentre on Problem Instance m15421_7

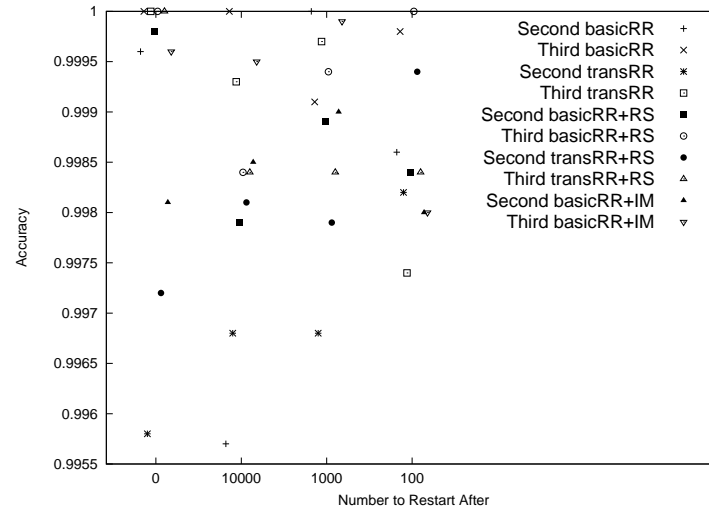


Figure B.554: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_4

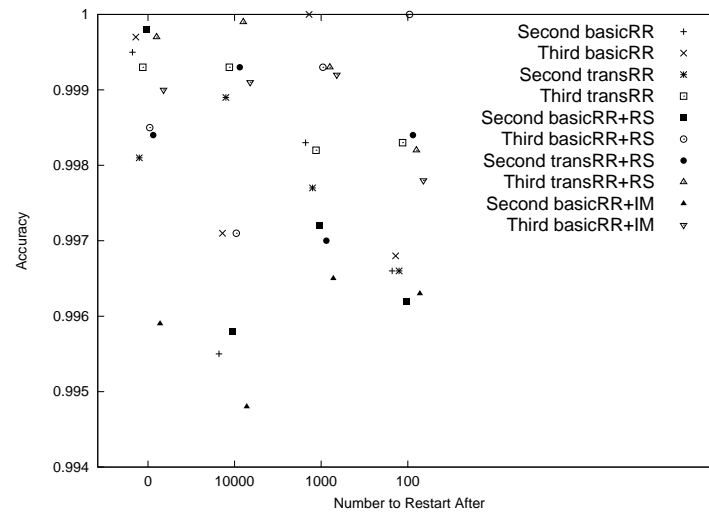


Figure B.555: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_5

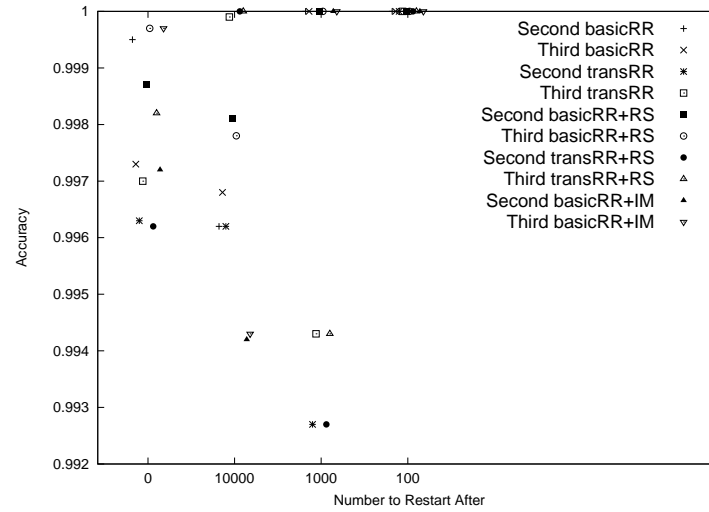


Figure B.556: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_6

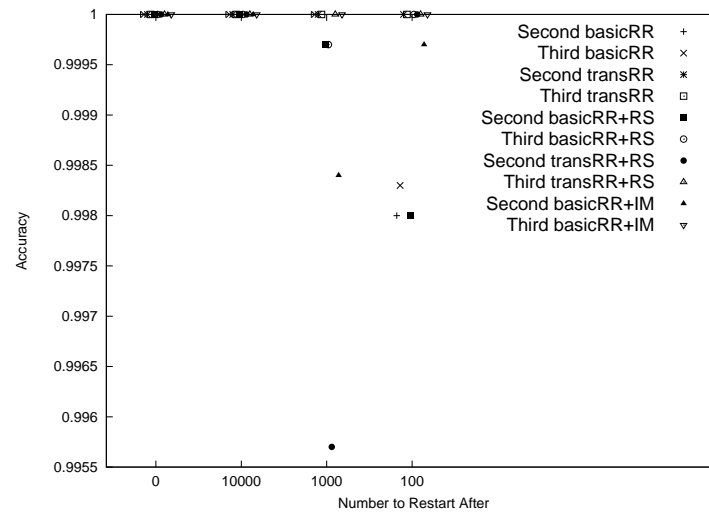


Figure B.557: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_7

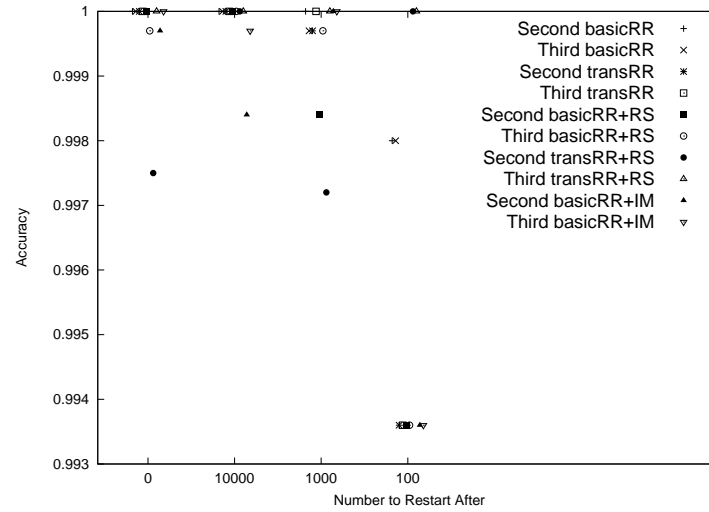


Figure B.558: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f25_305

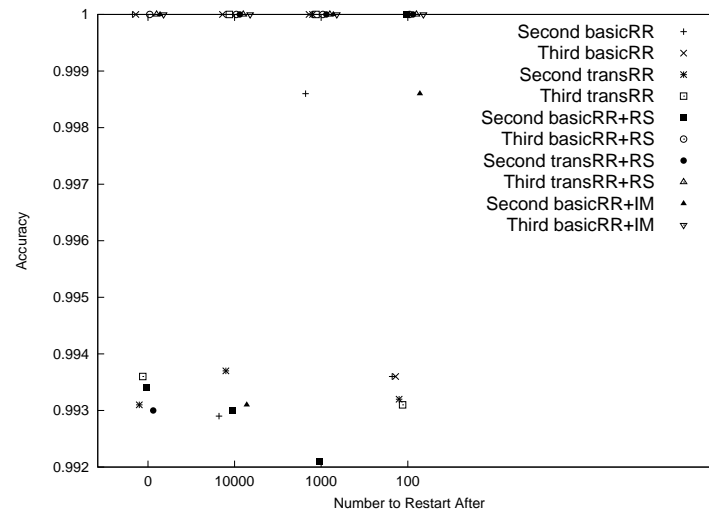


Figure B.559: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f25_400

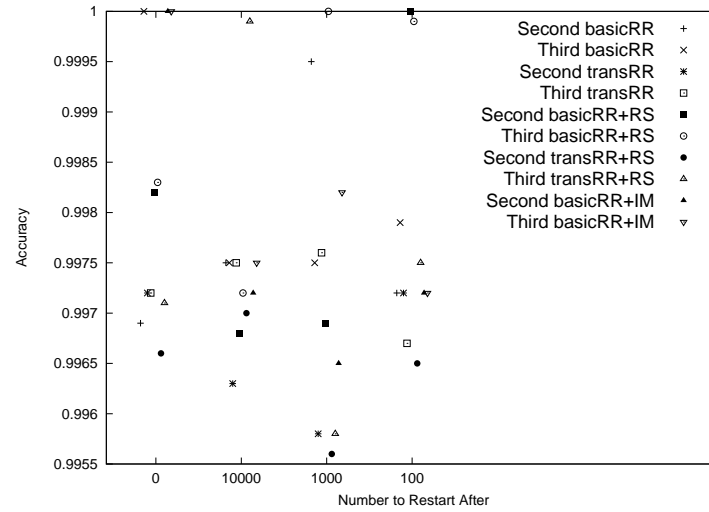


Figure B.560: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f25_500

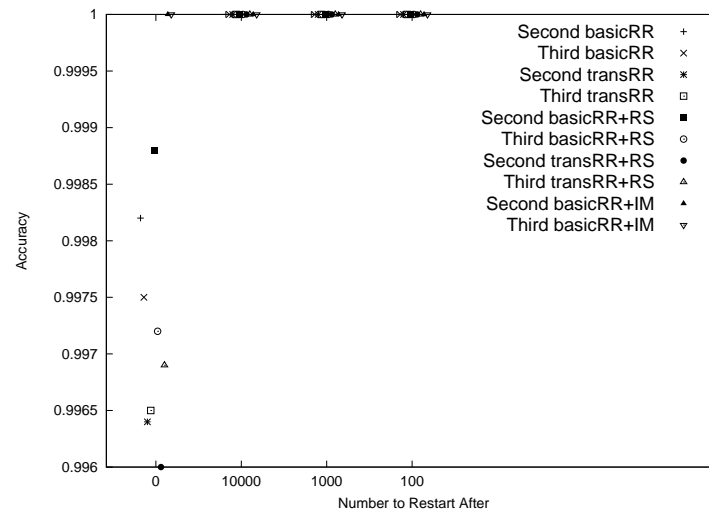


Figure B.561: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f50_315

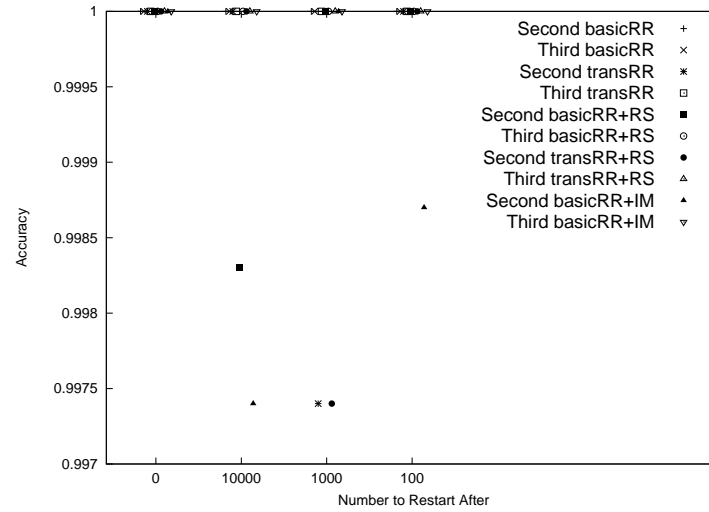


Figure B.562: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f50_412

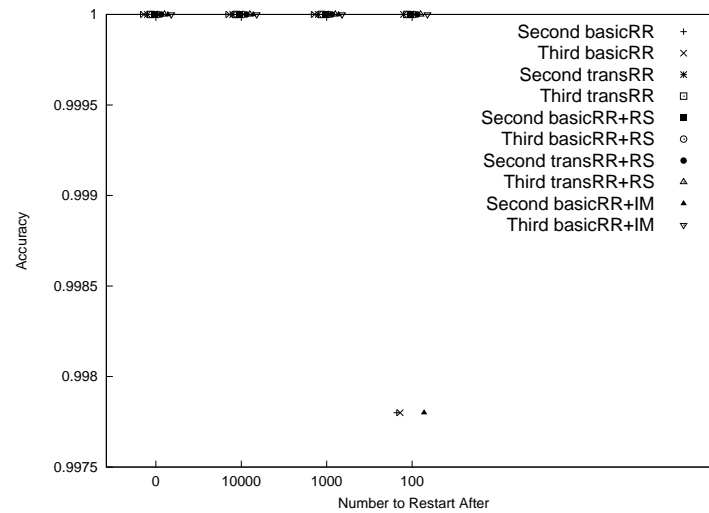


Figure B.563: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f50_498

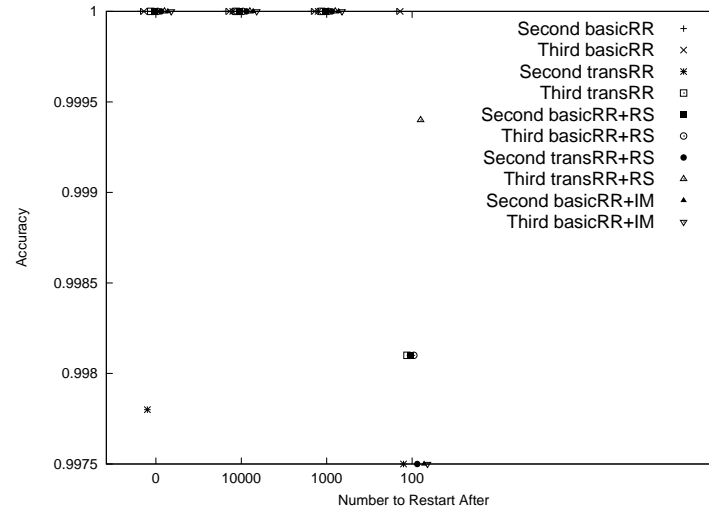


Figure B.564: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f100_307

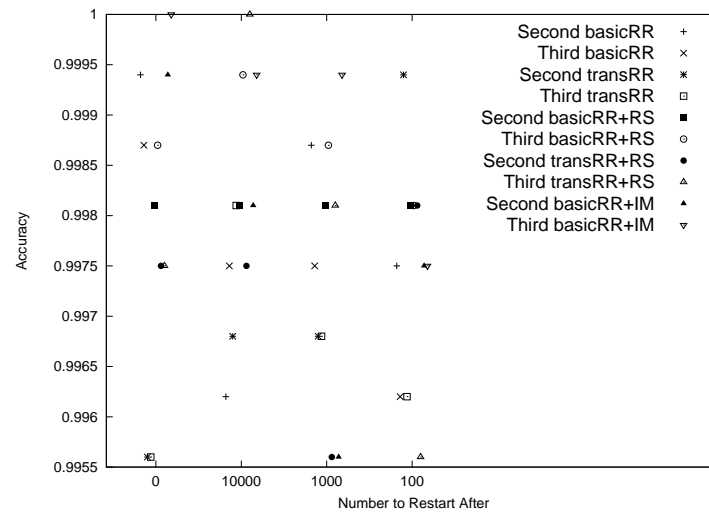


Figure B.565: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f100_415

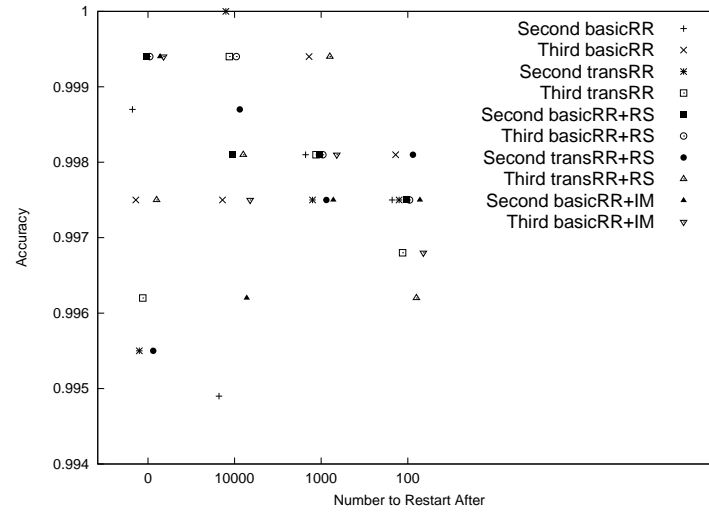


Figure B.566: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f100_512

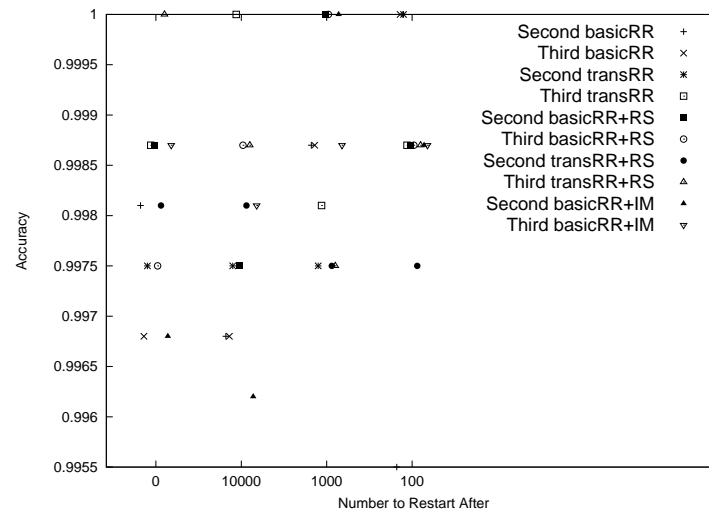


Figure B.567: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f508_354

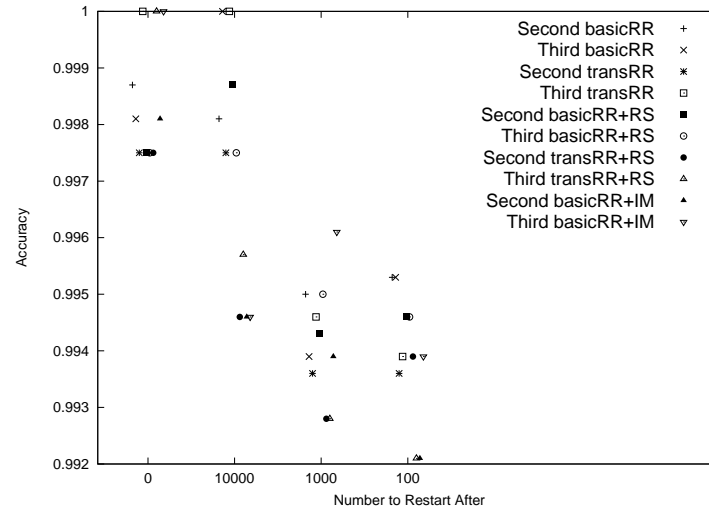


Figure B.568: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f635_350

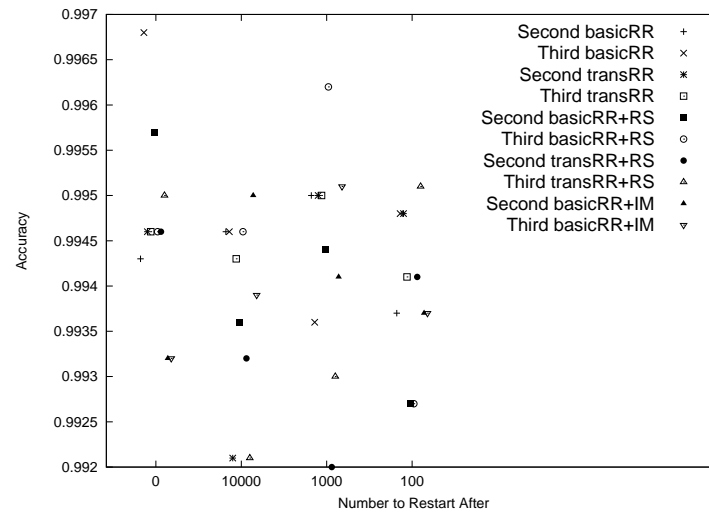


Figure B.569: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f737_355

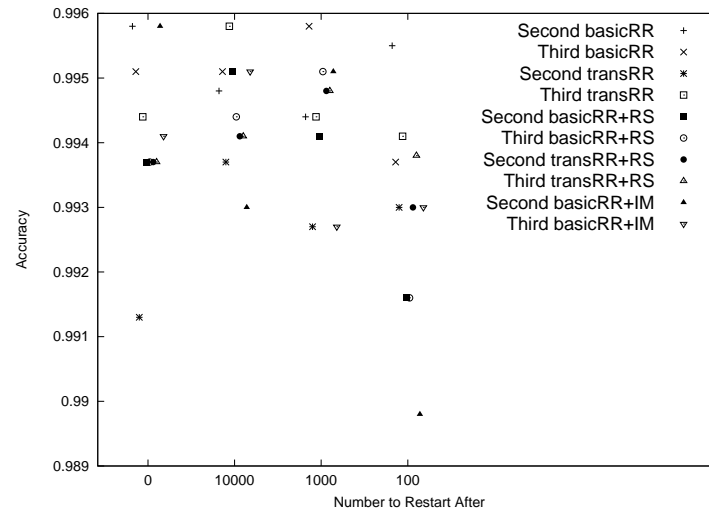


Figure B.570: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f1343_354

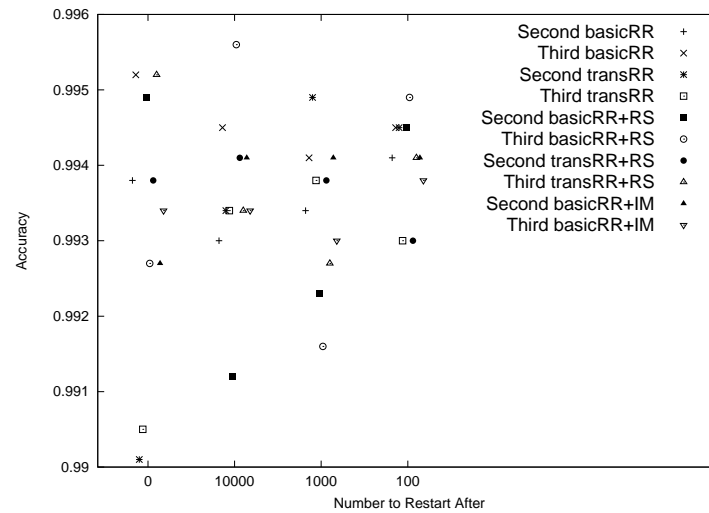


Figure B.571: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f1577_354

B.5.4 Fourth Set of Results

Results With No Post Optimization and No Forced Recentre

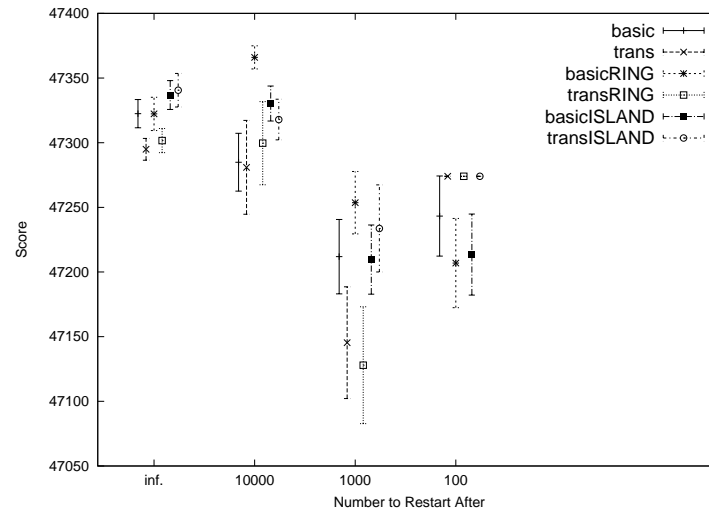


Figure B.572: Comparison of Best Results Between Algorithm Variations with No Post Optimizaition and No Forced Recentre on Problem Instance acin1

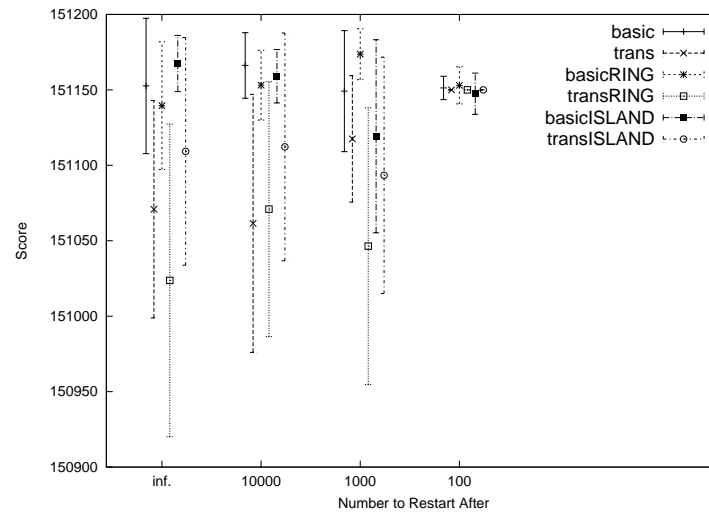


Figure B.573: Comparison of Best Results Between Algorithm Variations with No Post Optimizaition and No Forced Recentre on Problem Instance acin2

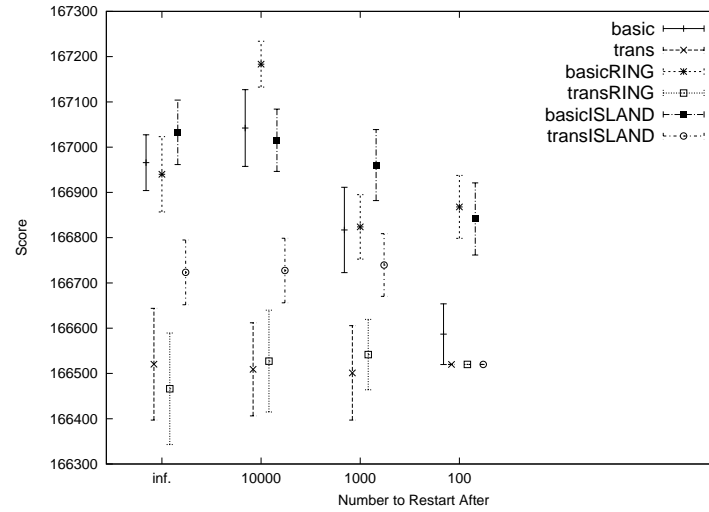


Figure B.574: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance acin3

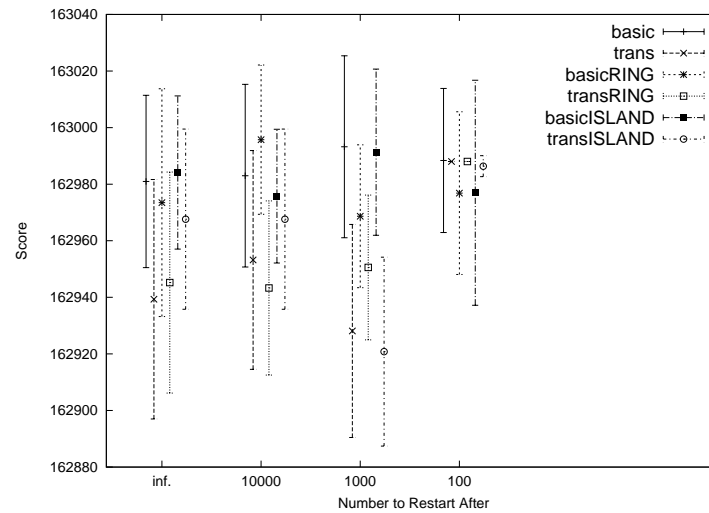


Figure B.575: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance acin5

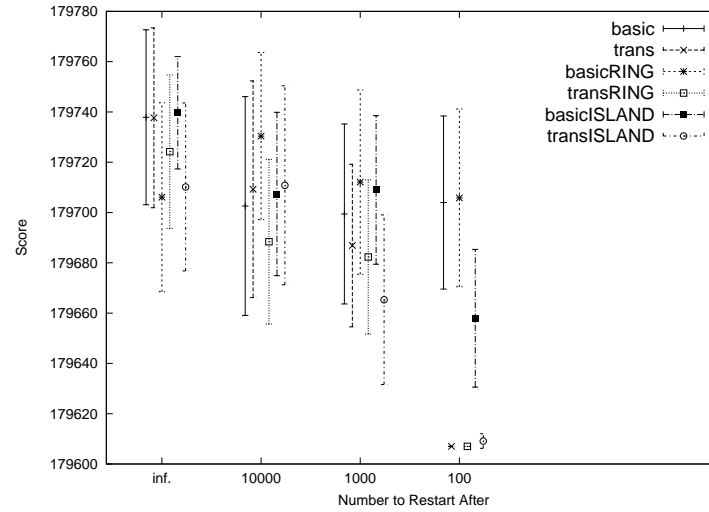


Figure B.576: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance acin7

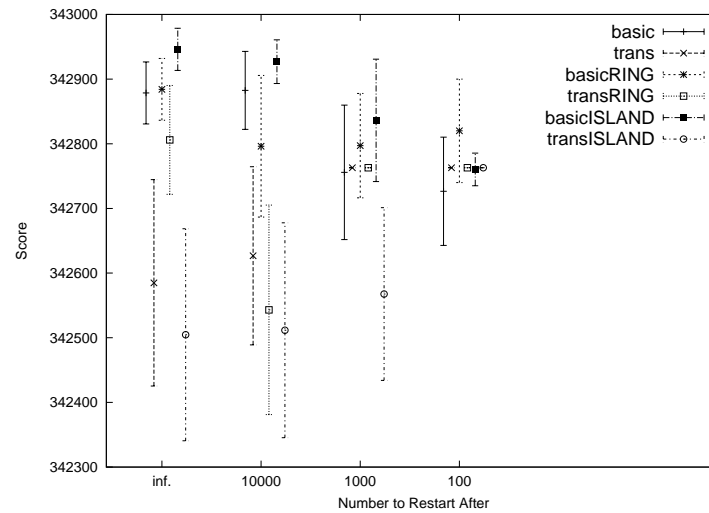


Figure B.577: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance acin9

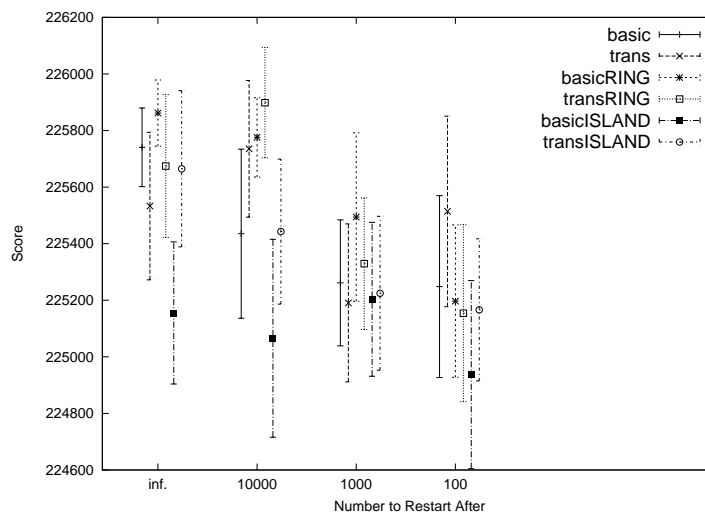


Figure B.578: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance bx842596_4

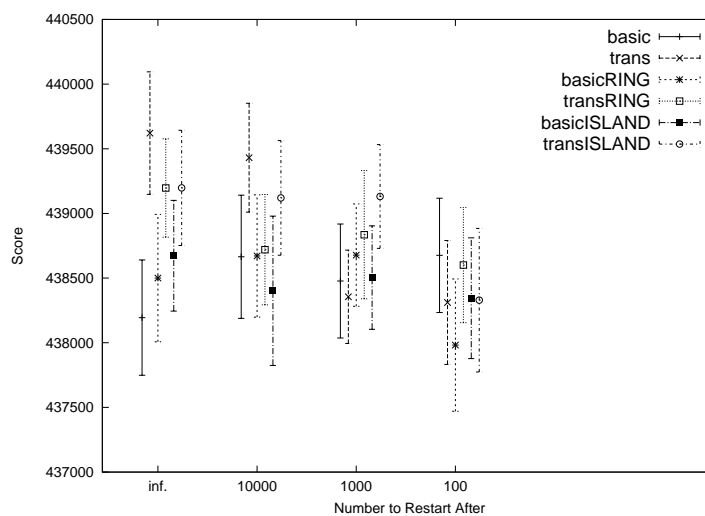


Figure B.579: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance bx842596_7

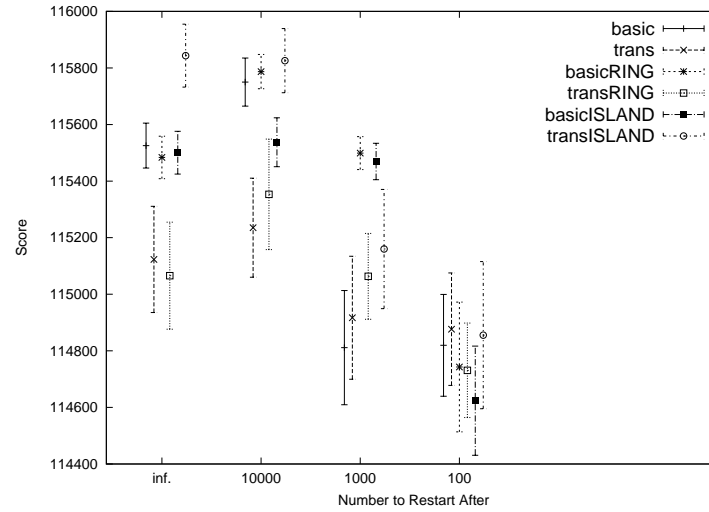


Figure B.580: Comparison of Best Results Between Algorithm Variations with No Post Optimization and No Forced Recentre on Problem Instance j02459_7

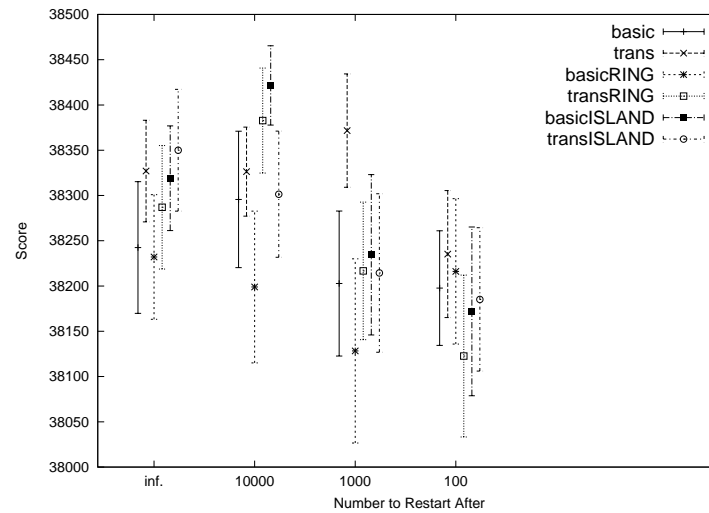


Figure B.581: Comparison of Best Results Between Algorithm Variations with No Post Optimization and No Forced Recentre on Problem Instance m15421_5

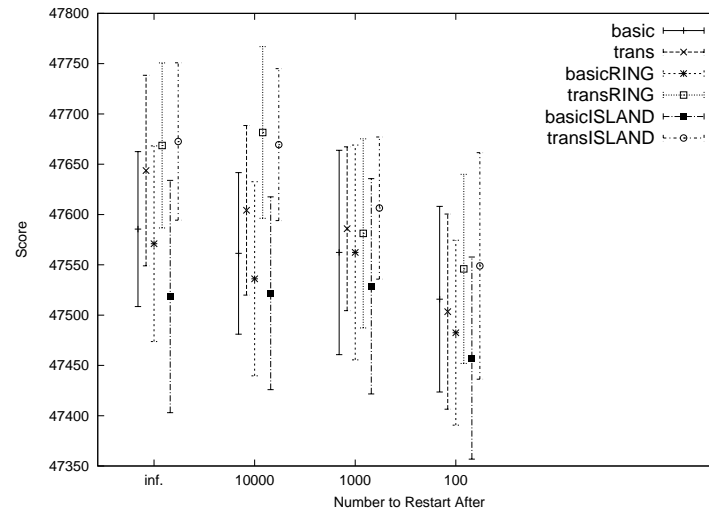


Figure B.582: Comparison of Best Results Between Algorithm Variations with No Post Optimization and No Forced Recentre on Problem Instance m15421_6

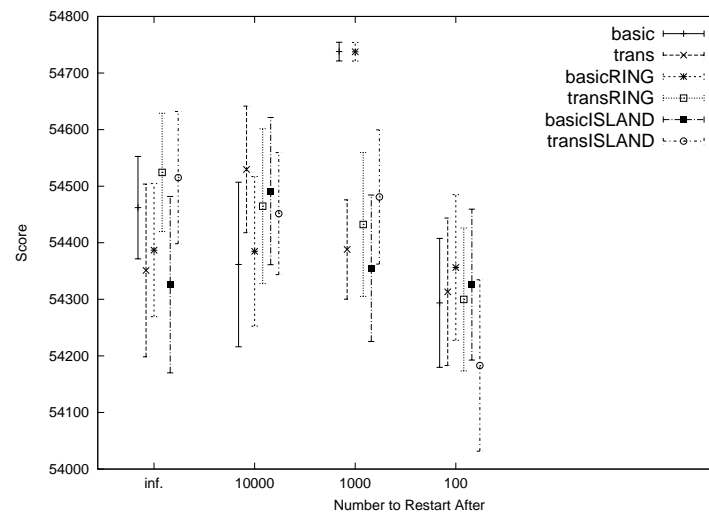


Figure B.583: Comparison of Best Results Between Algorithm Variations with No Post Optimization and No Forced Recentre on Problem Instance m15421_7

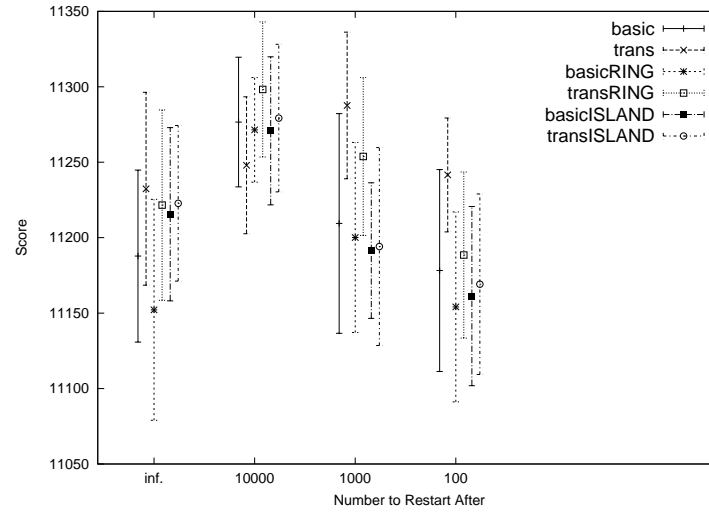


Figure B.584: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance x60189_4

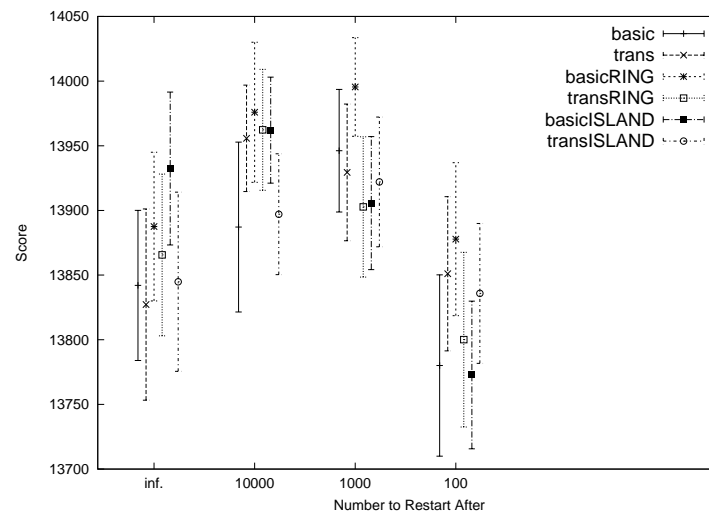


Figure B.585: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance x60189_5

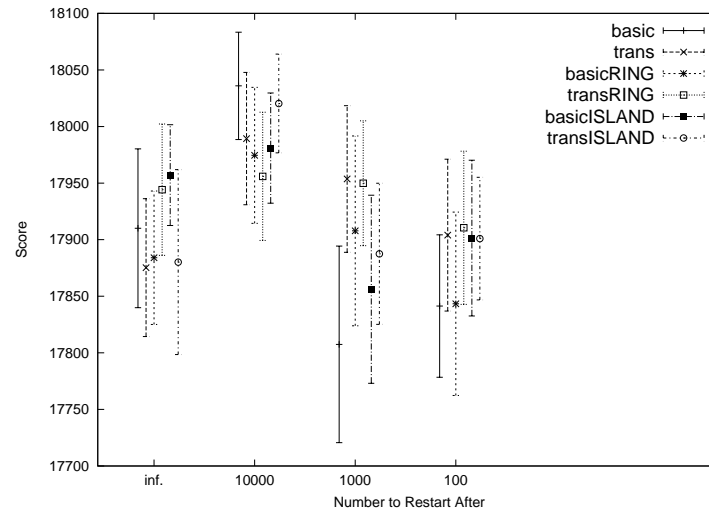


Figure B.586: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance x60189_6

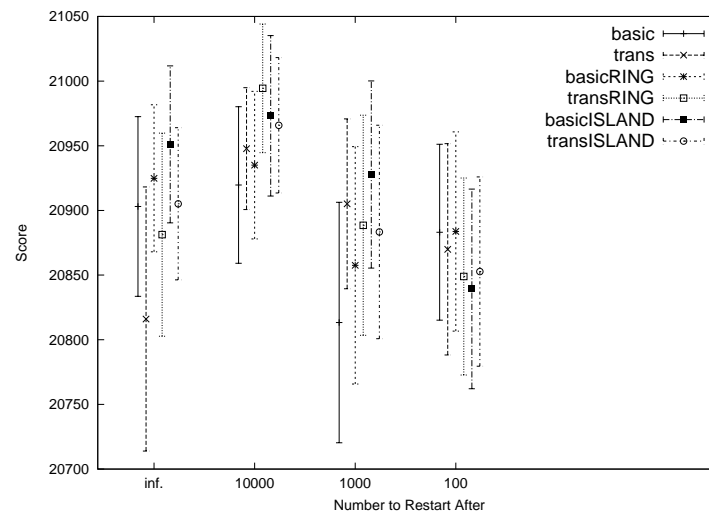


Figure B.587: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance x60189_7

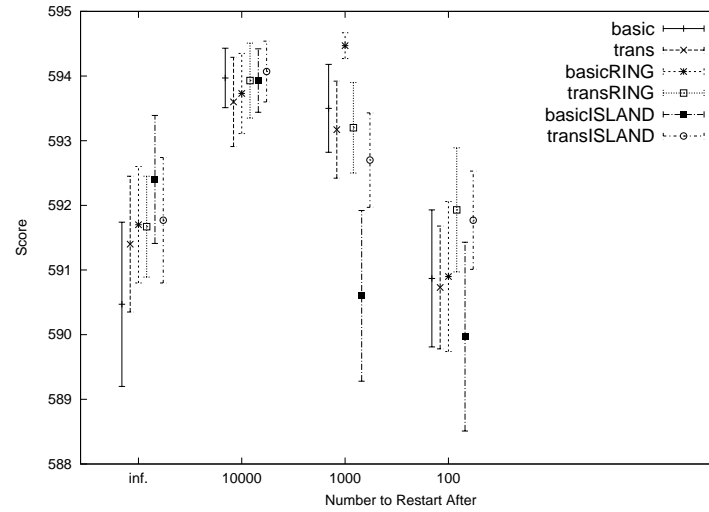


Figure B.588: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f25_305

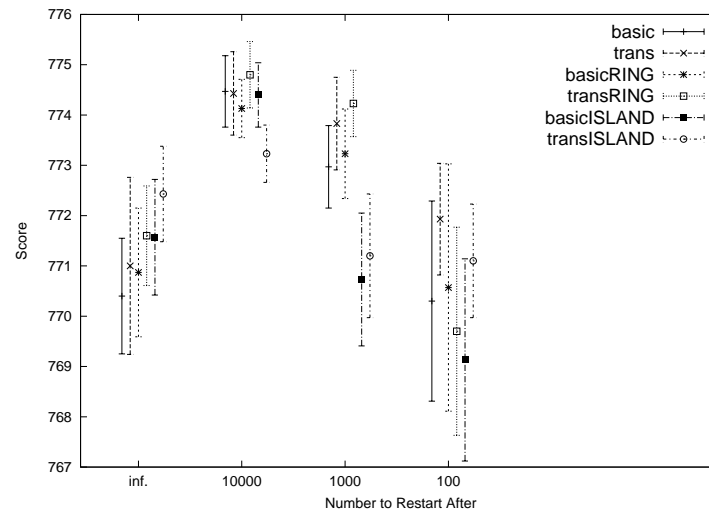


Figure B.589: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f25_400

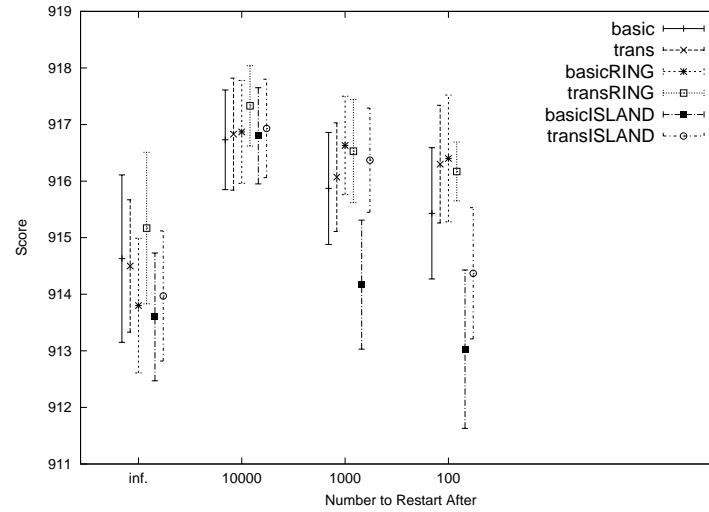


Figure B.590: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f25_500

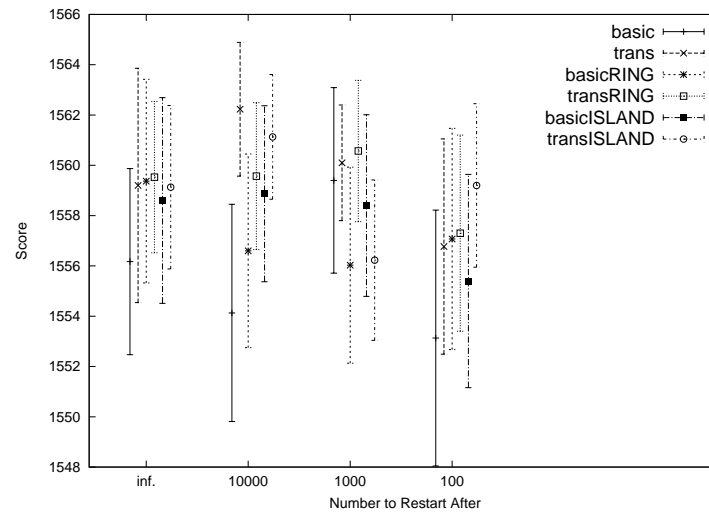


Figure B.591: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f50_315

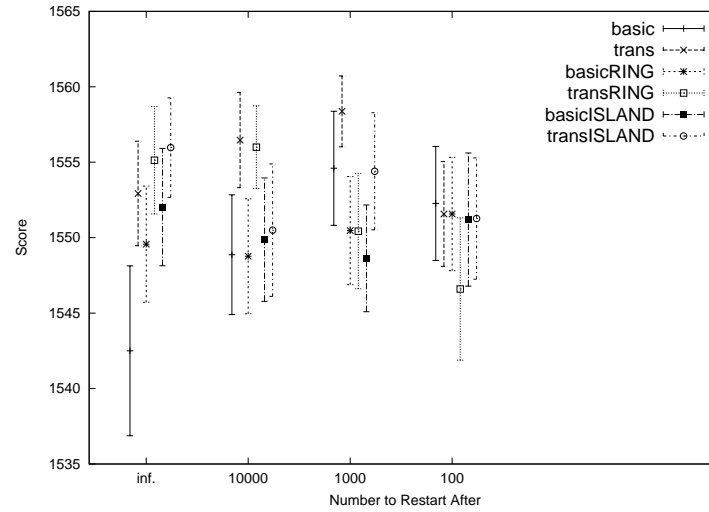


Figure B.592: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f50_412

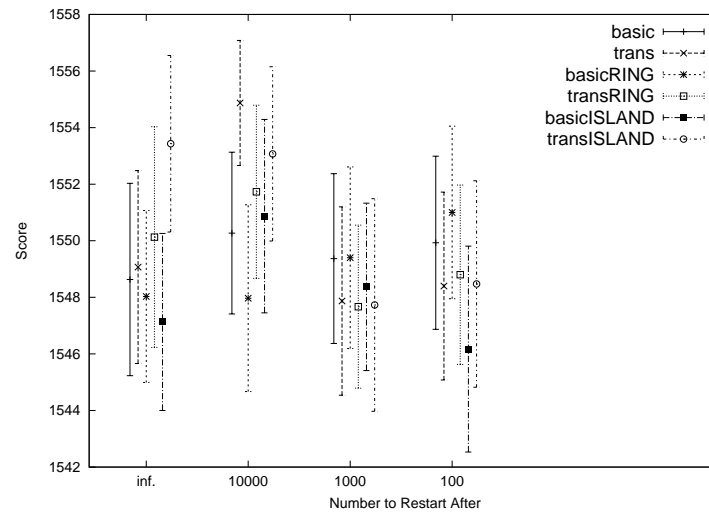


Figure B.593: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f50_498

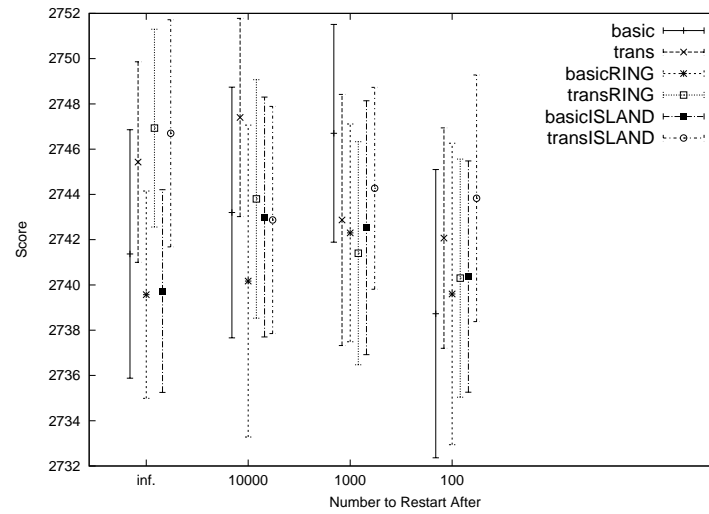


Figure B.594: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f100_307

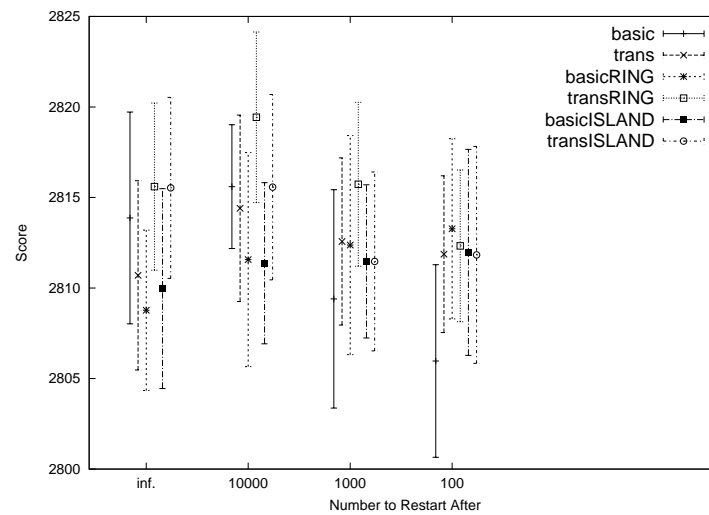


Figure B.595: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f100_415

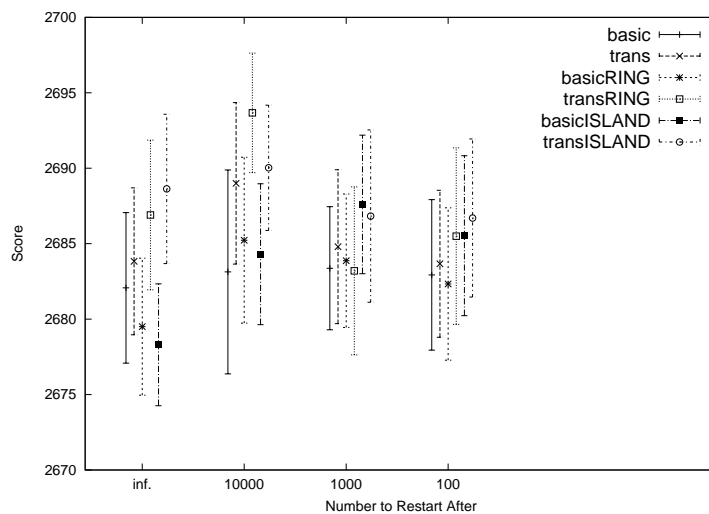


Figure B.596: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f100_512

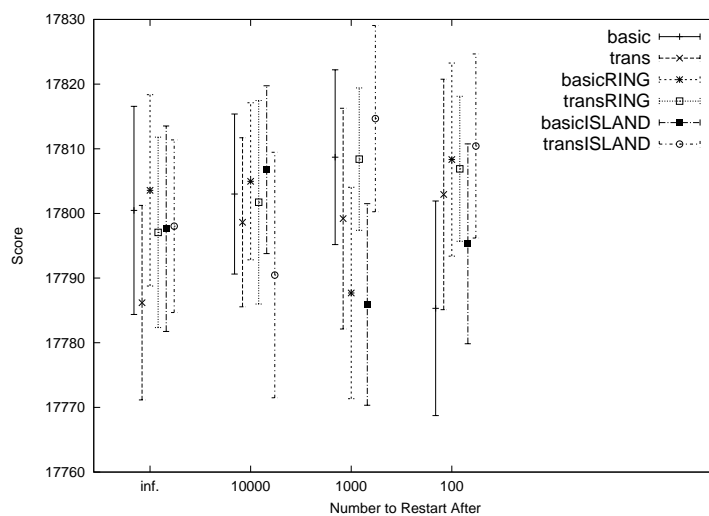


Figure B.597: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f508_354

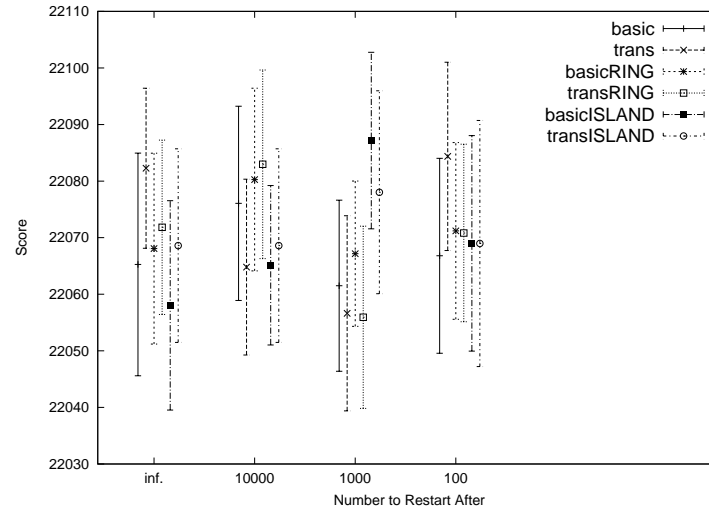


Figure B.598: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f635_350

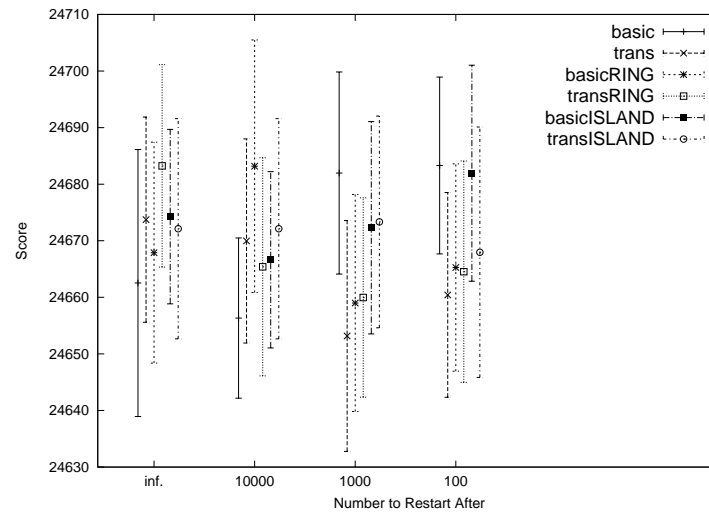


Figure B.599: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f737_355

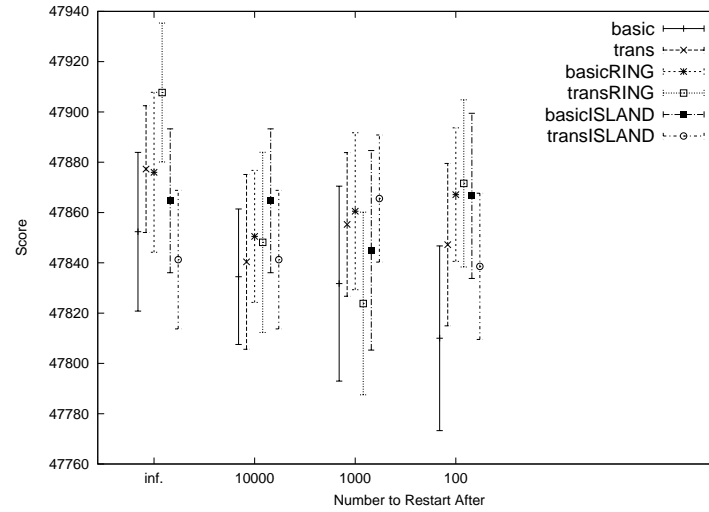


Figure B.600: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f1343_354

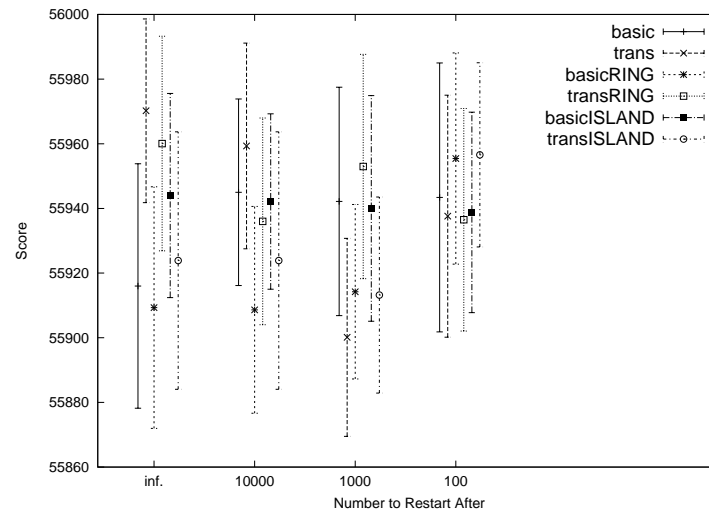


Figure B.601: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and No Forced Recentre on Problem Instance f1577_354

Results With Post Optimization and No Forced Recentre

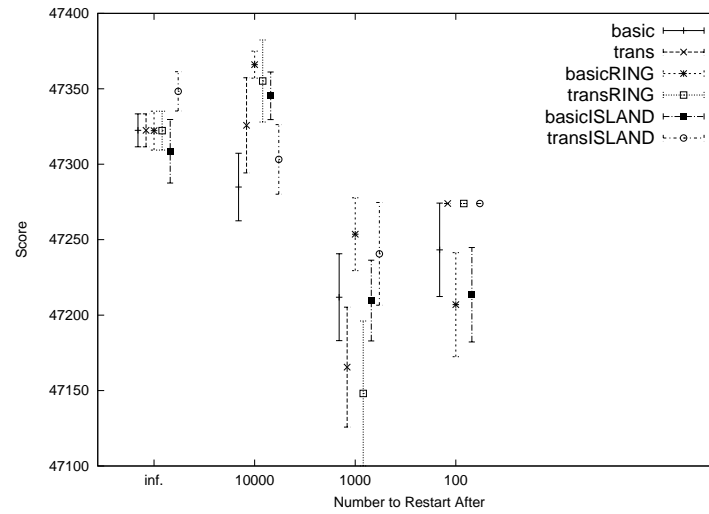


Figure B.602: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin1

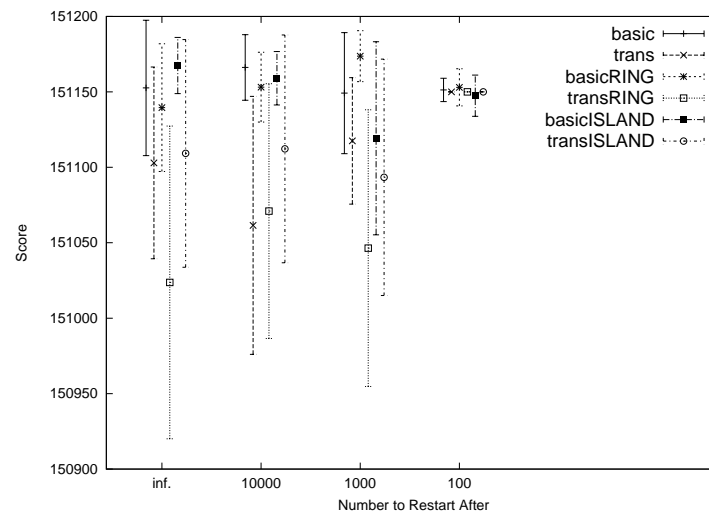


Figure B.603: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin2

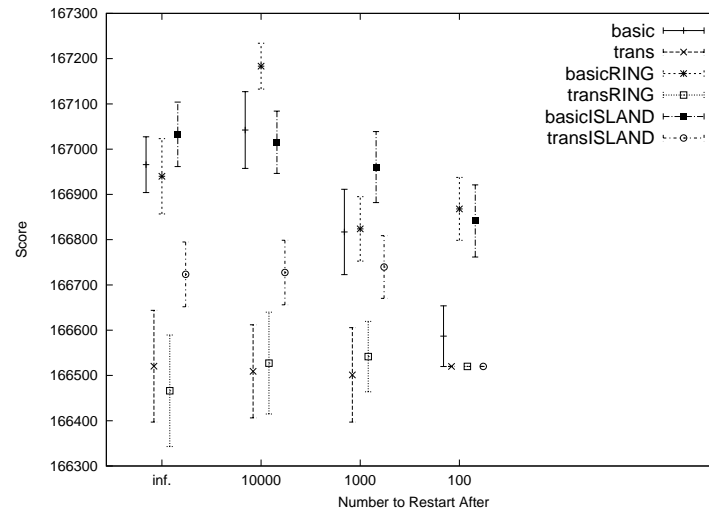


Figure B.604: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin3

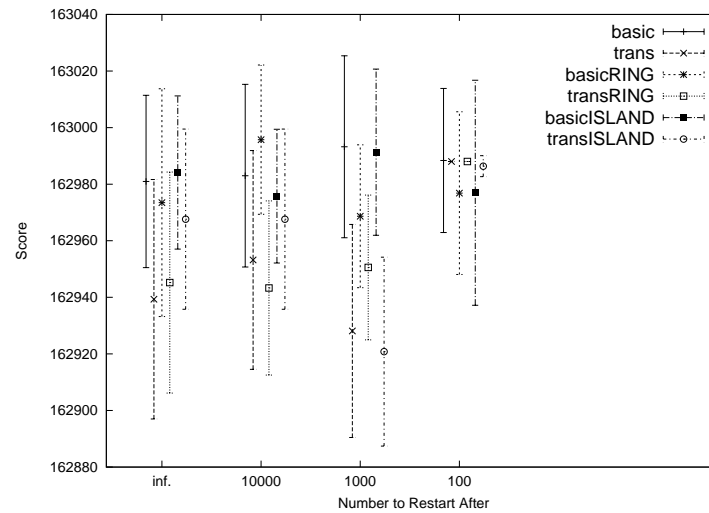


Figure B.605: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin5

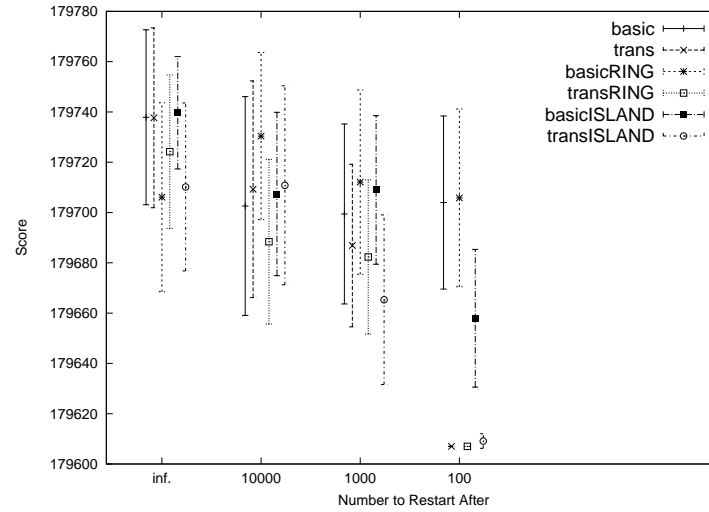


Figure B.606: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin7

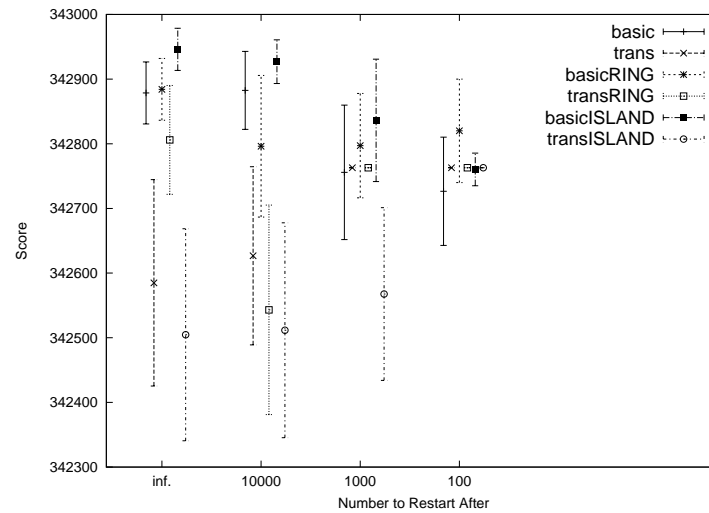


Figure B.607: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance acin9

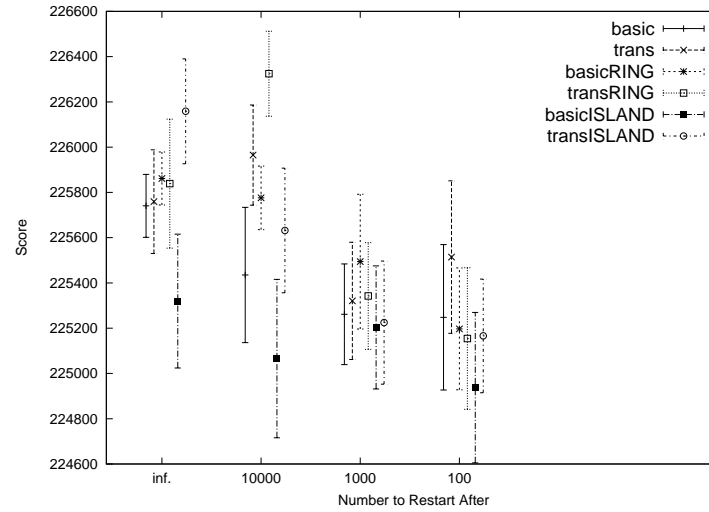


Figure B.608: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance bx842596_4

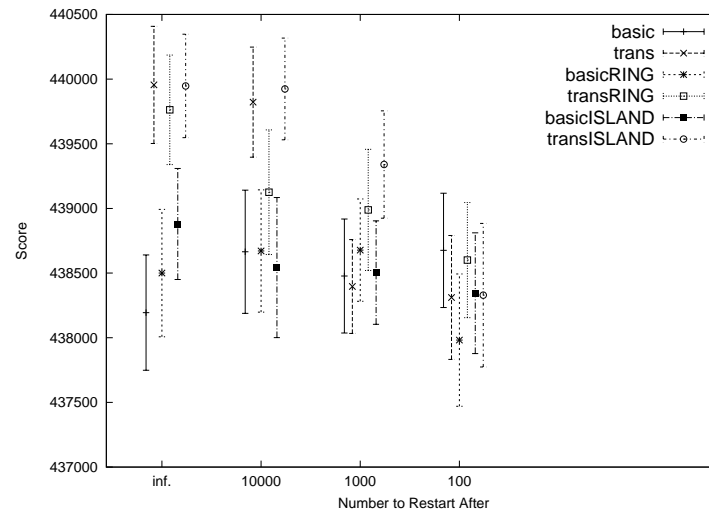


Figure B.609: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance bx842596_7

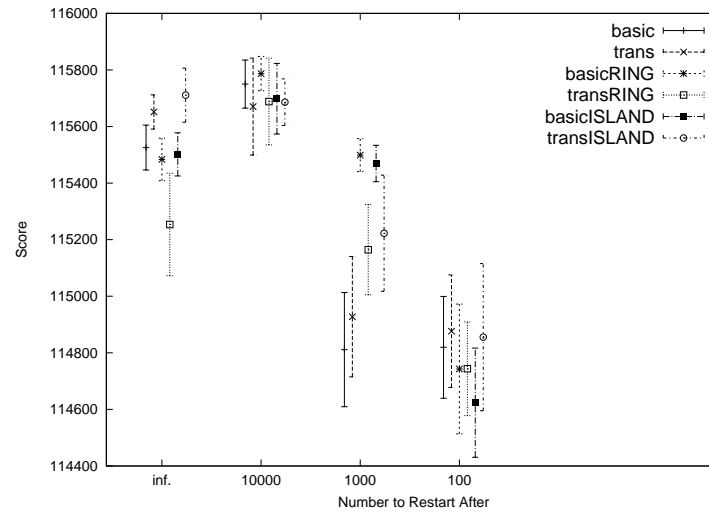


Figure B.610: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance j02459_7

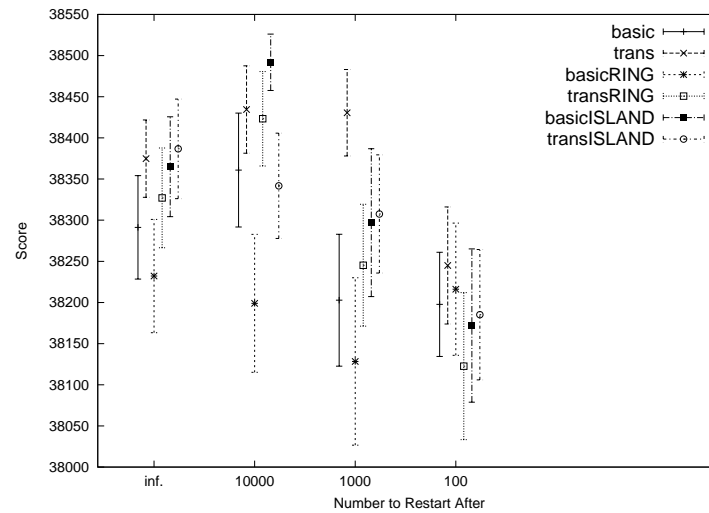


Figure B.611: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance m15421_5

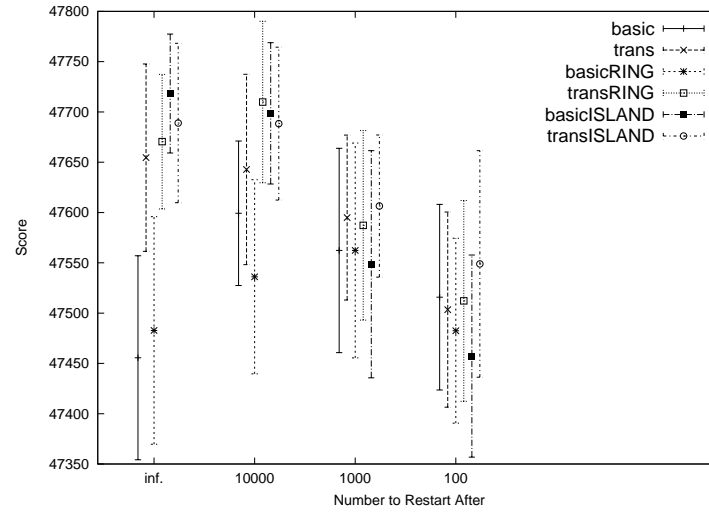


Figure B.612: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance m15421_6

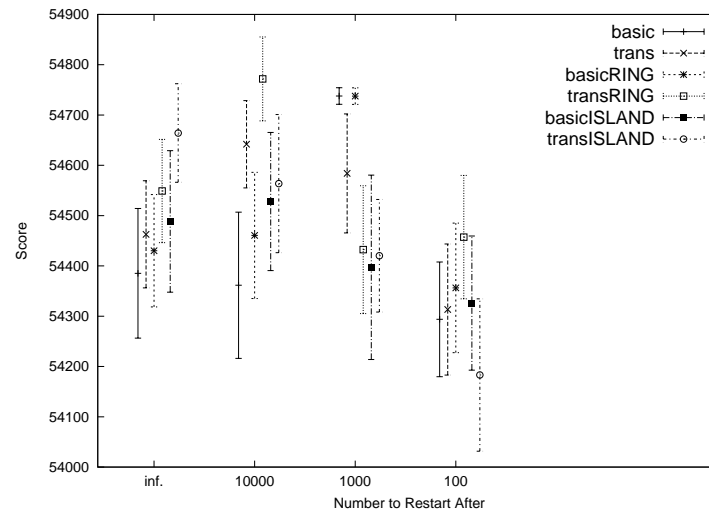


Figure B.613: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance m15421_7

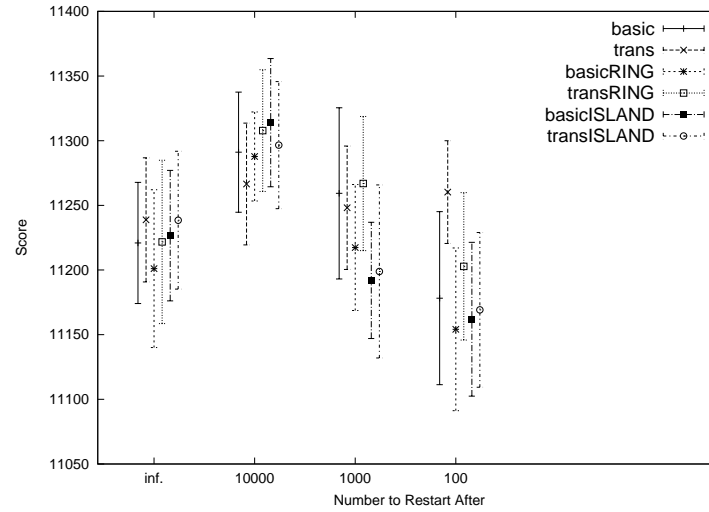


Figure B.614: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance x60189_4

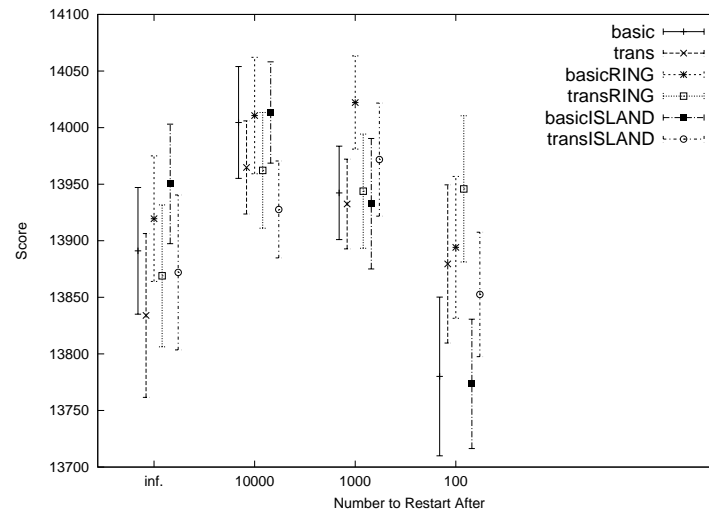


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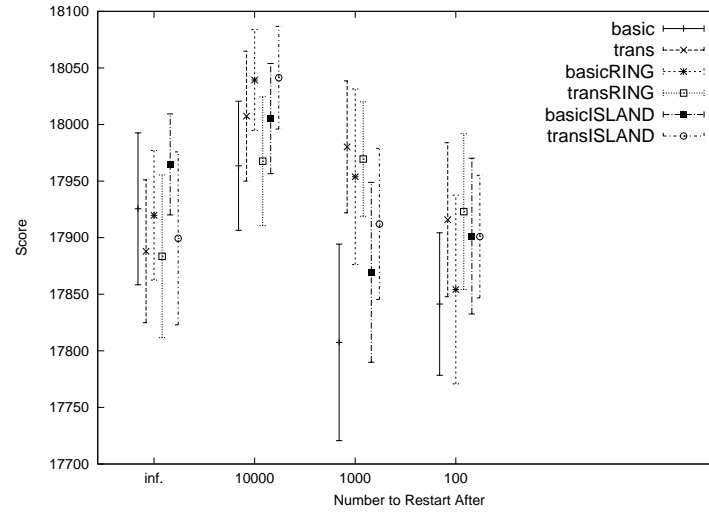


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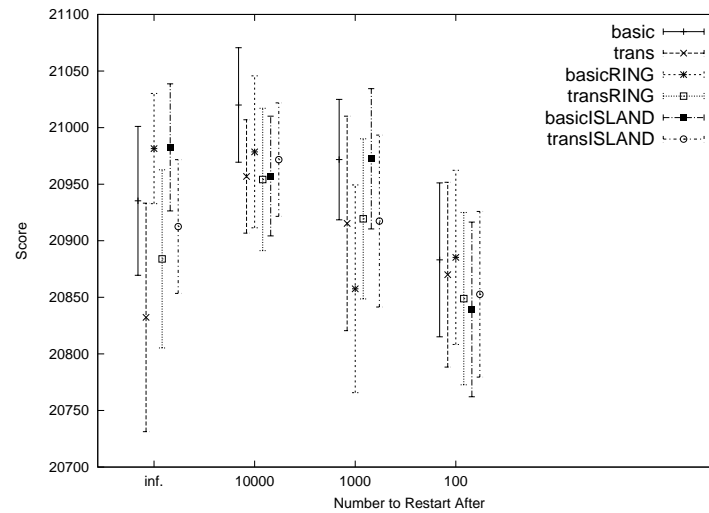


Figure B.617: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance x60189_7

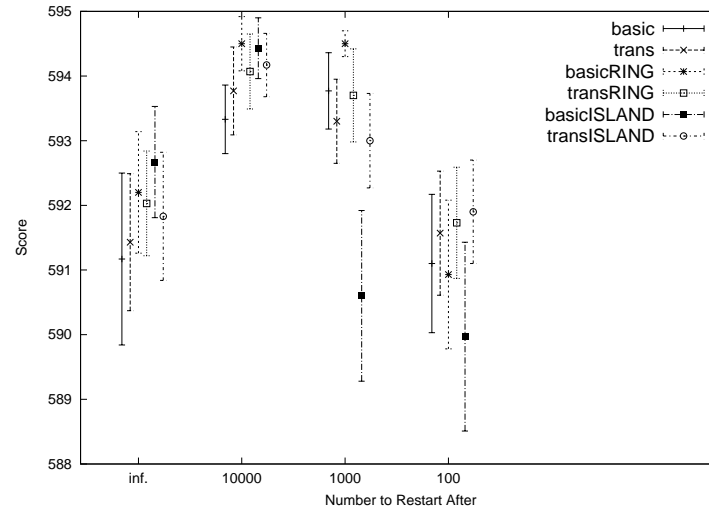


Figure B.618: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f25_305

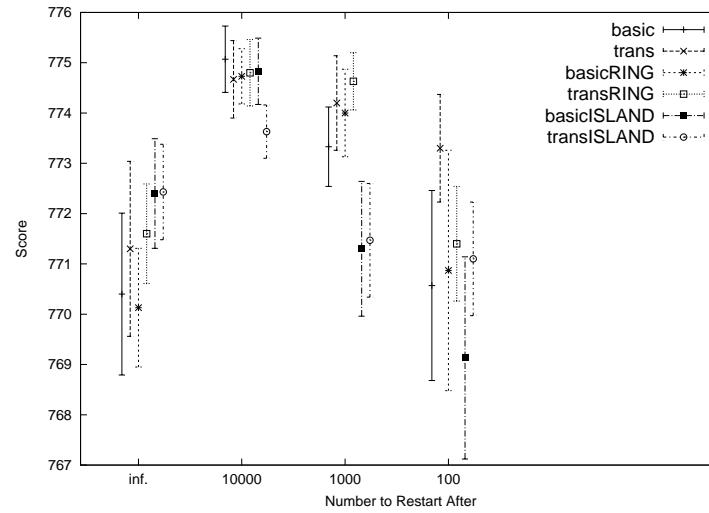


Figure B.619: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f25_400

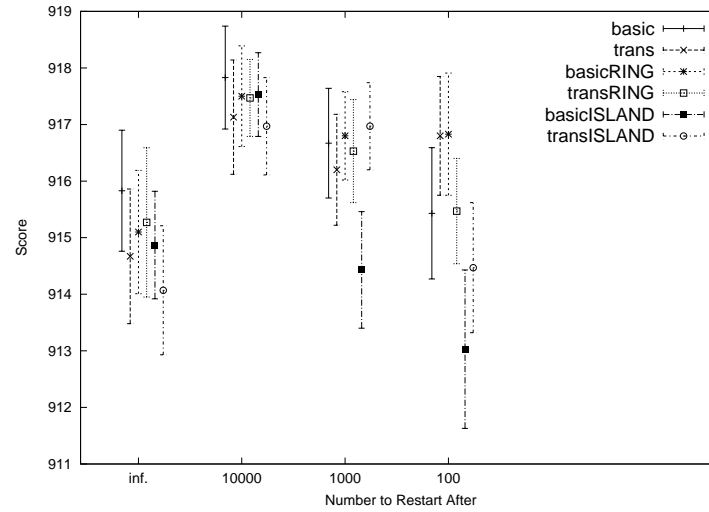


Figure B.620: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f25_500

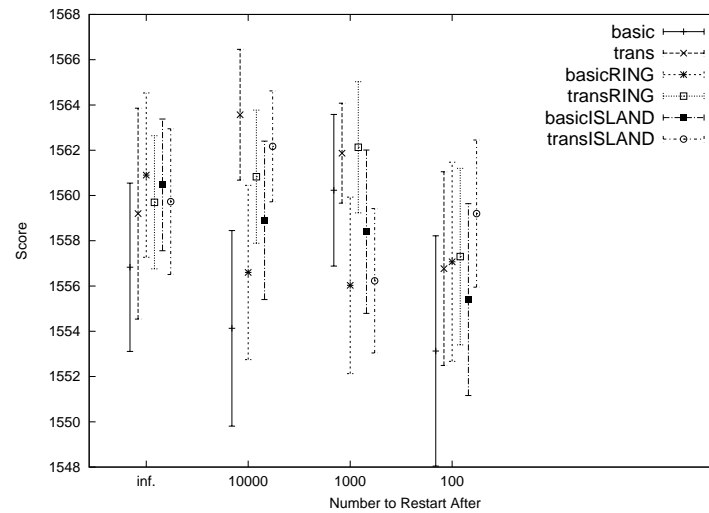


Figure B.621: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f50_315

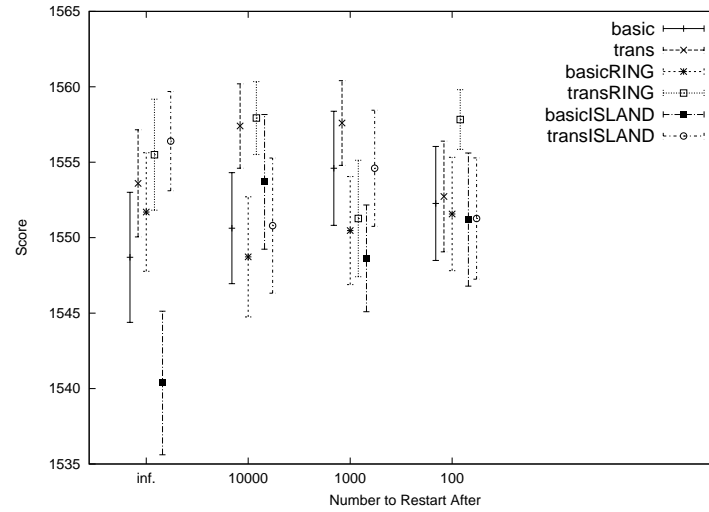


Figure B.622: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f50_412

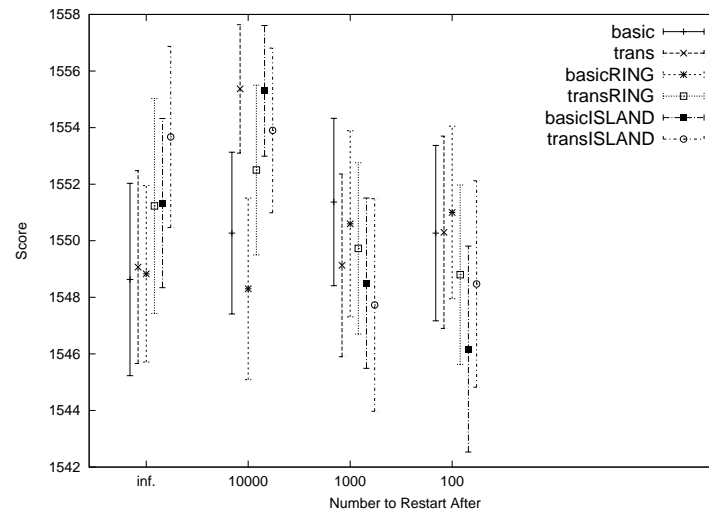


Figure B.623: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f50_498

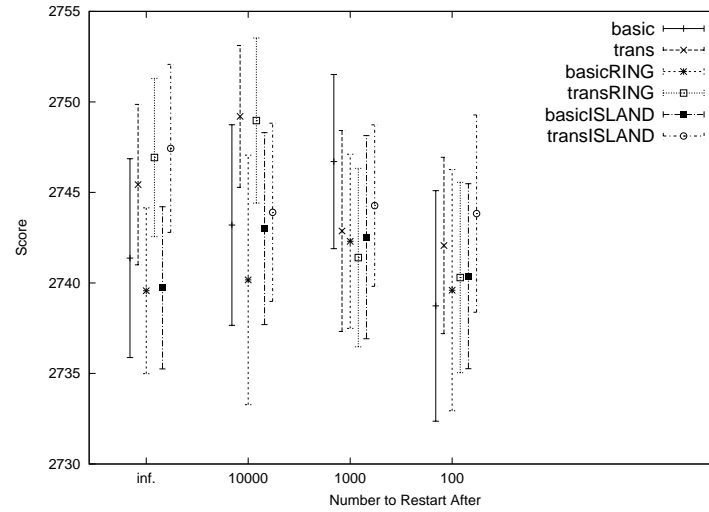


Figure B.624: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f100_307

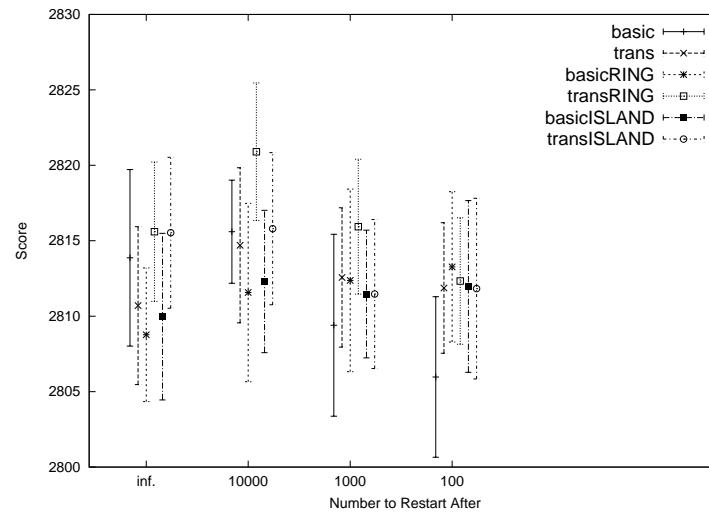


Figure B.625: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f100_415

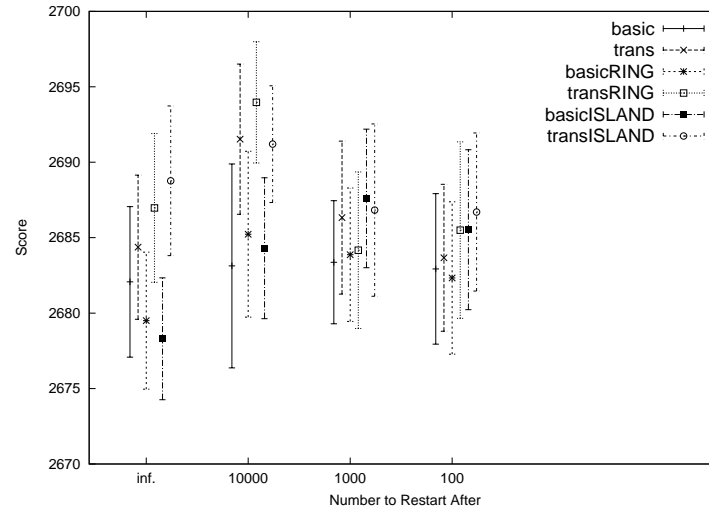


Figure B.626: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f100_512

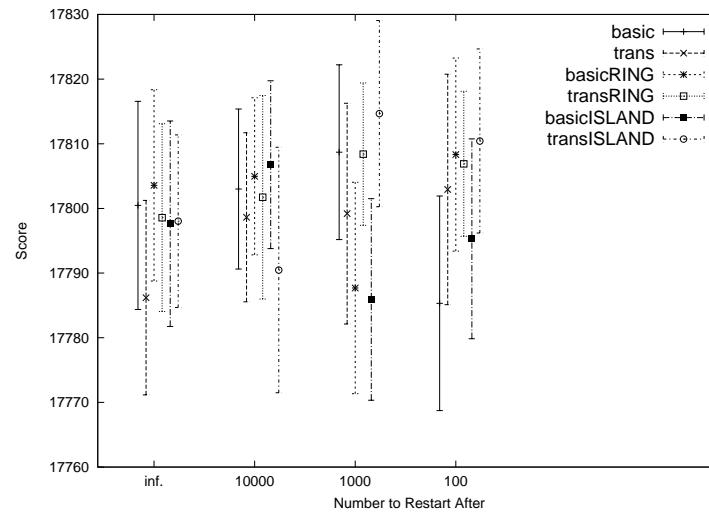


Figure B.627: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f508_354

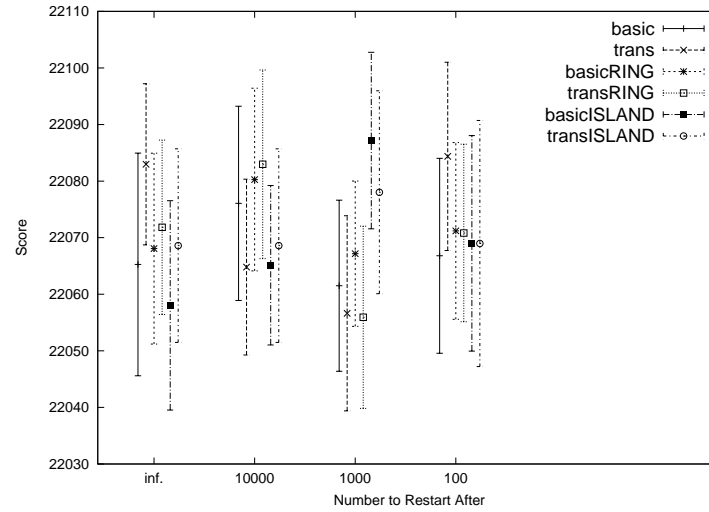


Figure B.628: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f635_350

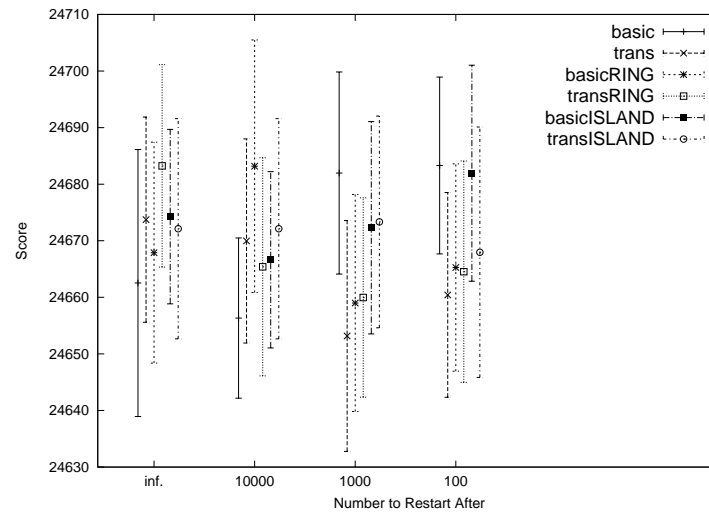


Figure B.629: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f737_355

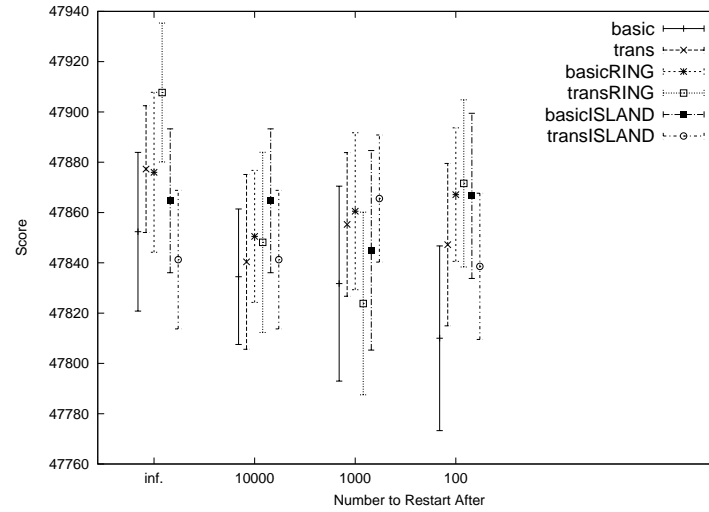


Figure B.630: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f1343_354

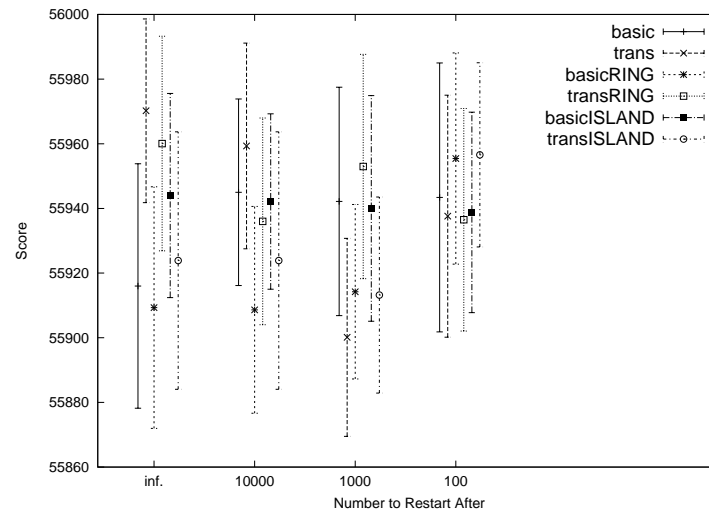


Figure B.631: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and No Forced Recentre on Problem Instance f1577_354

Results With No Post Optimization and Forced Recentre

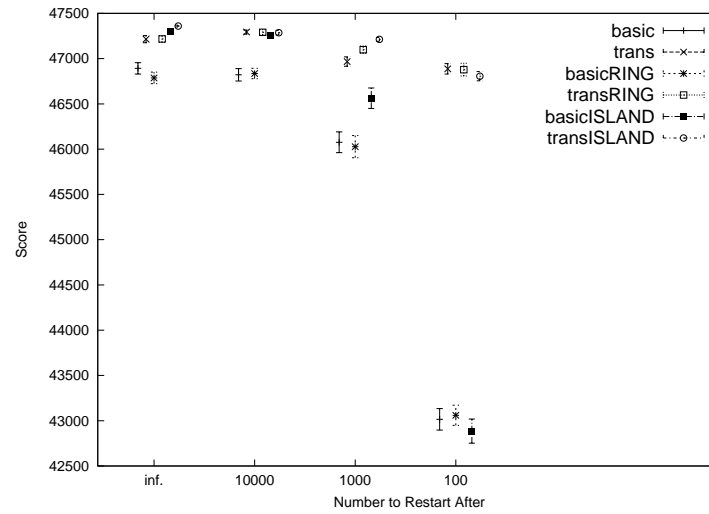


Figure B.632: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance acin1

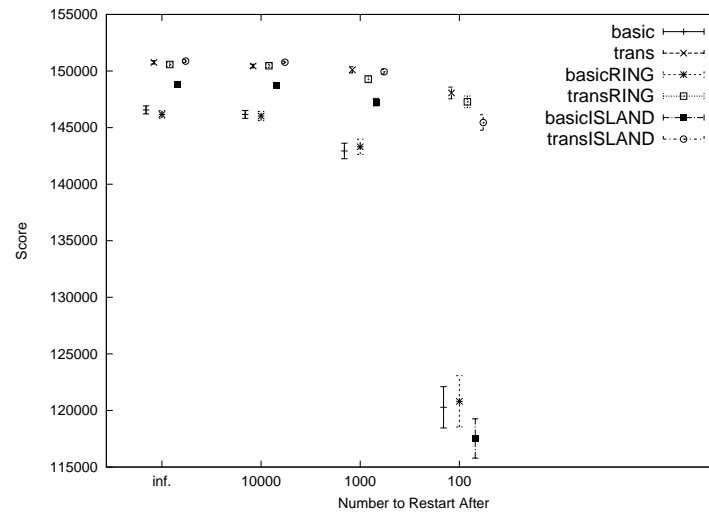


Figure B.633: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance acin2

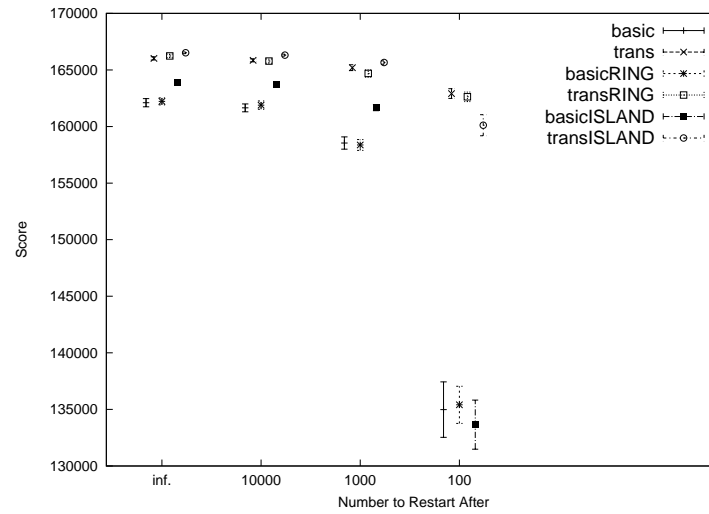


Figure B.634: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance acin3

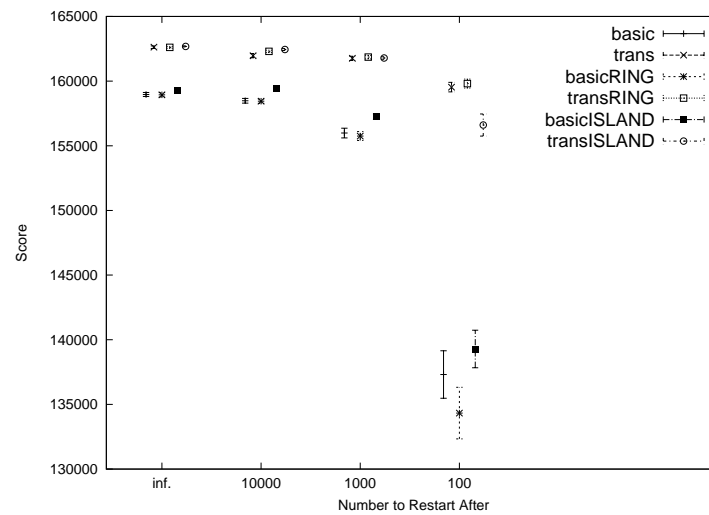


Figure B.635: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance acin5

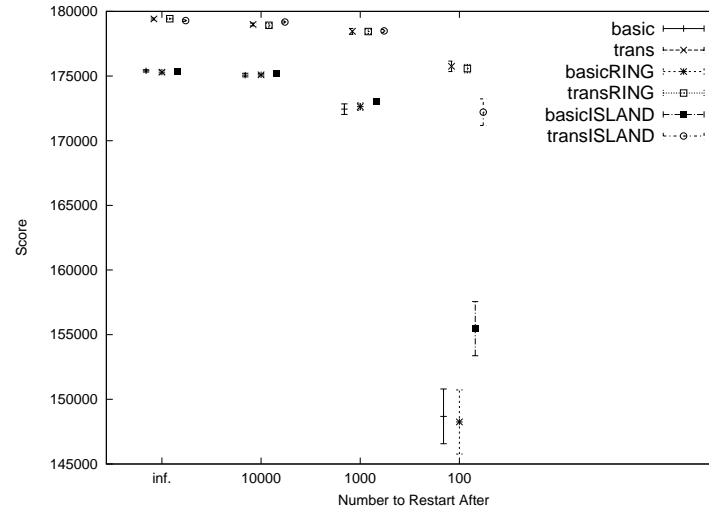


Figure B.636: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance acin7

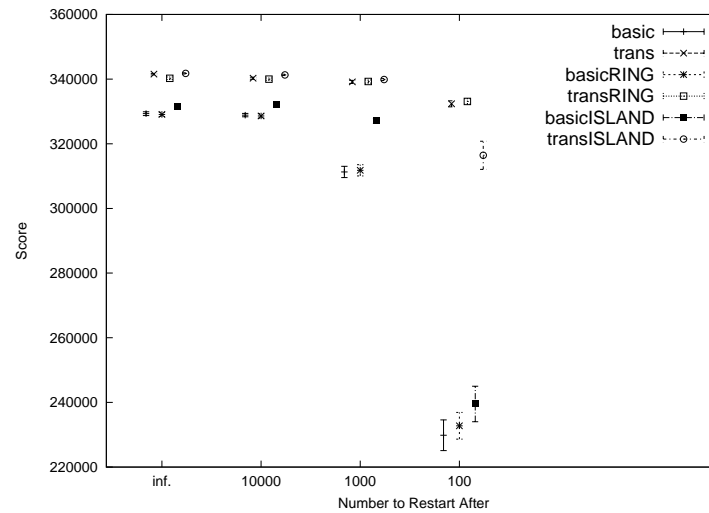


Figure B.637: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance acin9

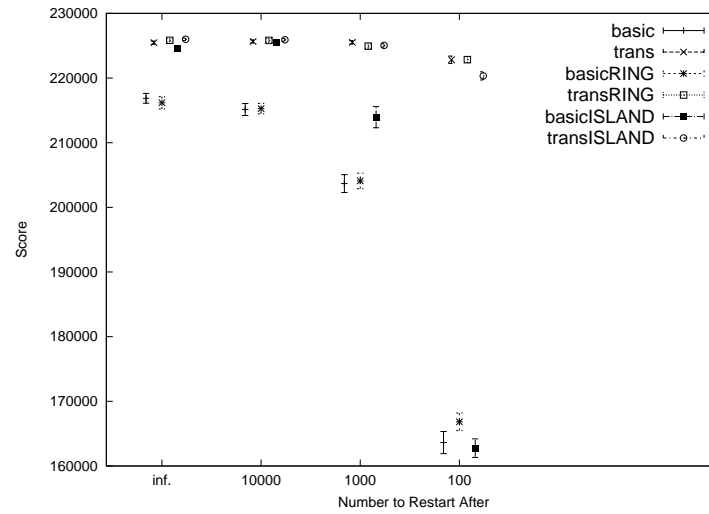


Figure B.638: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance bx842596_4

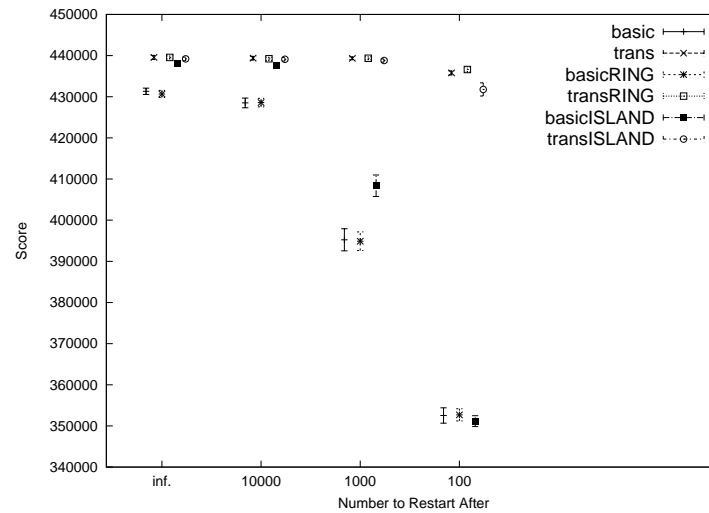


Figure B.639: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance bx842596_7

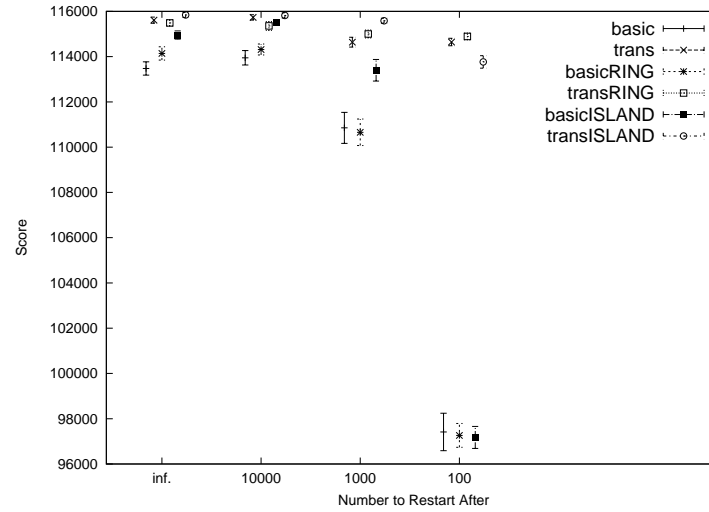


Figure B.640: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance j02459_7

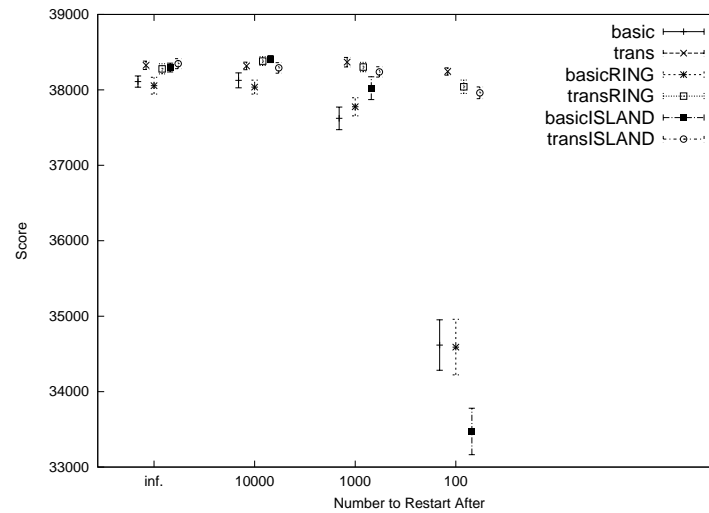


Figure B.641: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance m15421_5

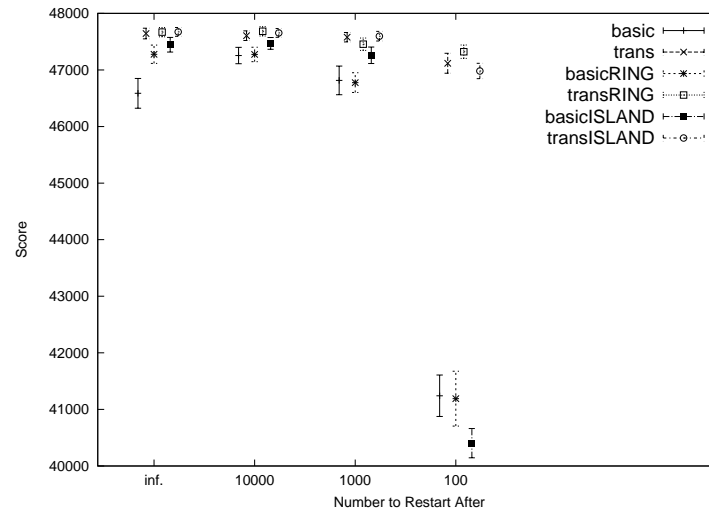


Figure B.642: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance m15421_6

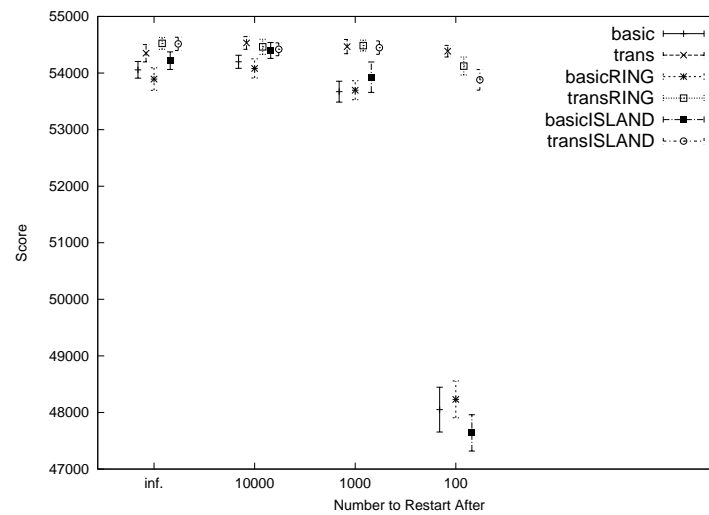


Figure B.643: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance m15421_7

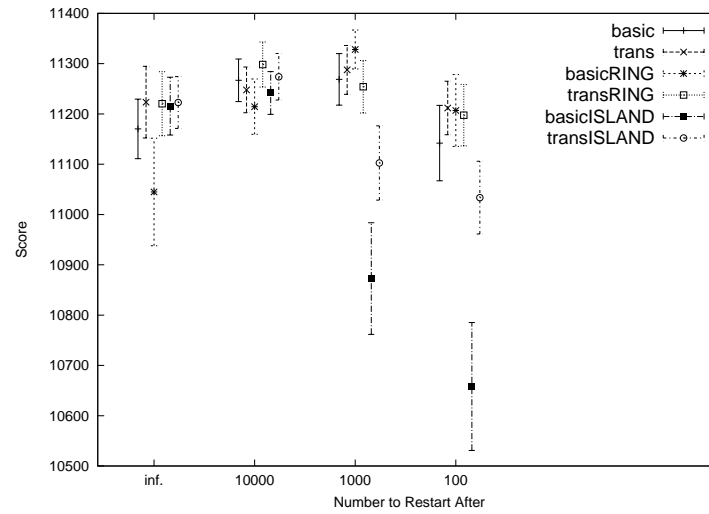


Figure B.644: Comparison of Best Results Between Algorithm Variations with No Post Optimizaition and Forced Recentre on Problem Instance x60189_4

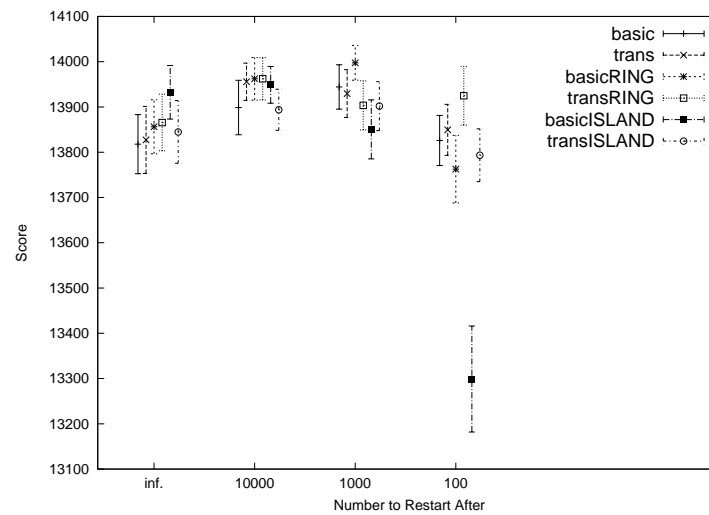


Figure B.645: Comparison of Best Results Between Algorithm Variations with No Post Optimizaition and Forced Recentre on Problem Instance x60189_5

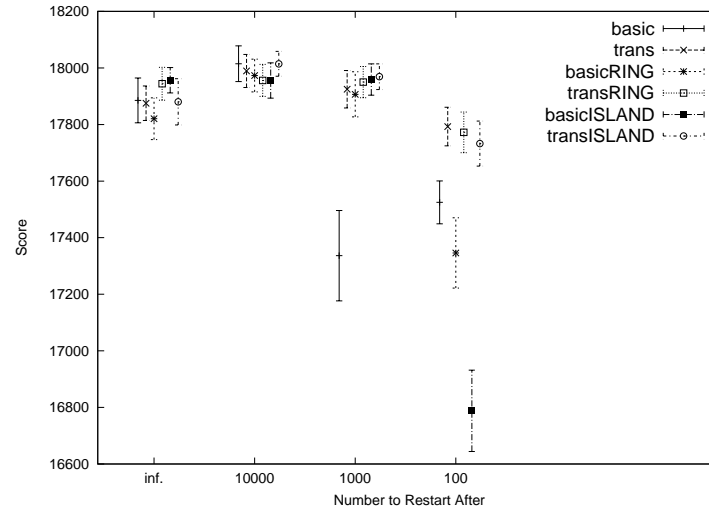


Figure B.646: Comparison of Best Results Between Algorithm Variations with No Post Optimizaition and Forced Recentre on Problem Instance x60189_6

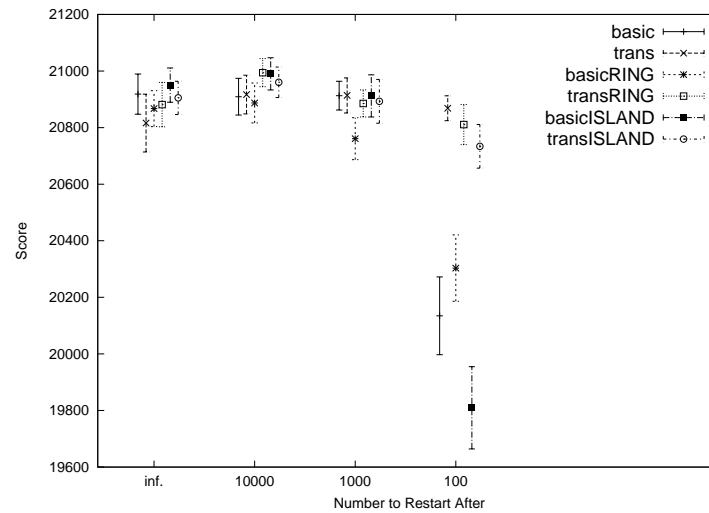


Figure B.647: Comparison of Best Results Between Algorithm Variations with No Post Optimizaition and Forced Recentre on Problem Instance x60189_7

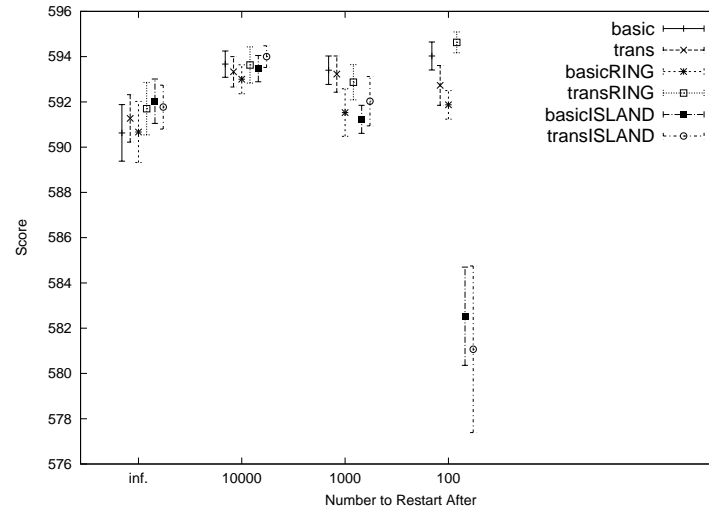


Figure B.648: Comparison of Best Results Between Algorithm Variations with No Post Optimization and Forced Recentre on Problem Instance f25_305

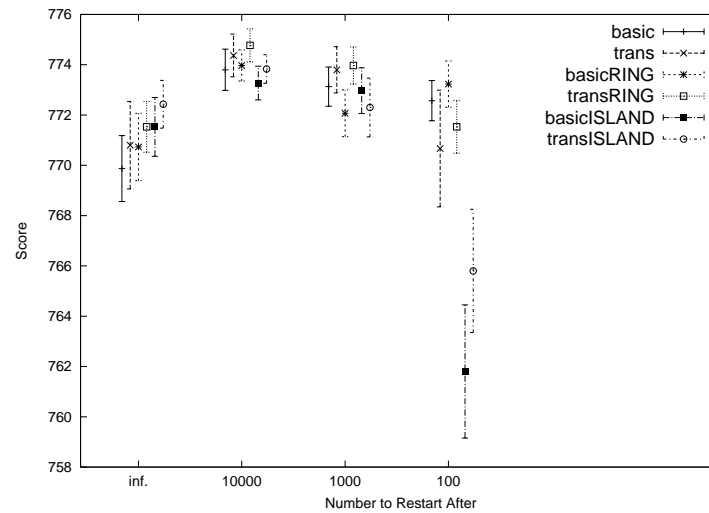


Figure B.649: Comparison of Best Results Between Algorithm Variations with No Post Optimization and Forced Recentre on Problem Instance f25_400

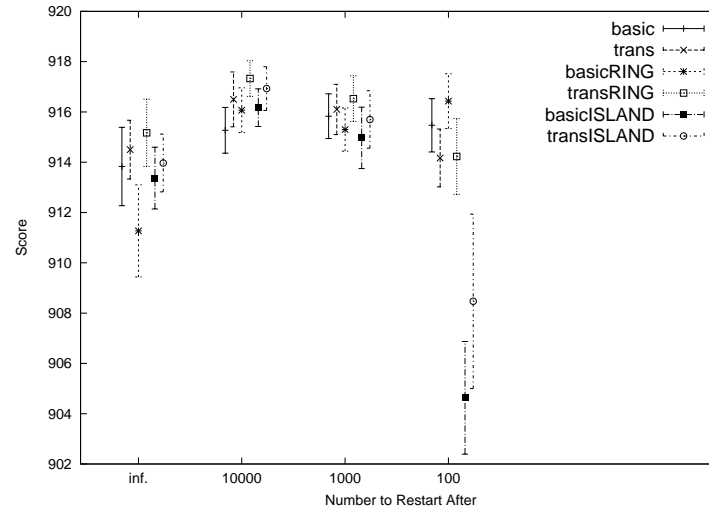


Figure B.650: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance f25_500

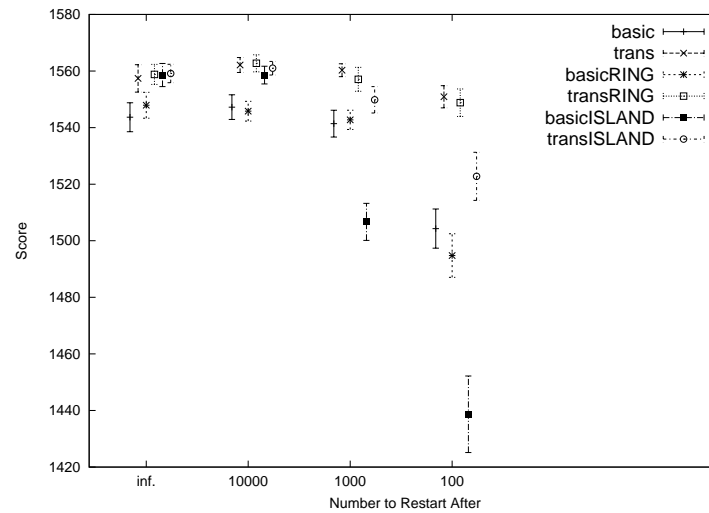


Figure B.651: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance f50_315

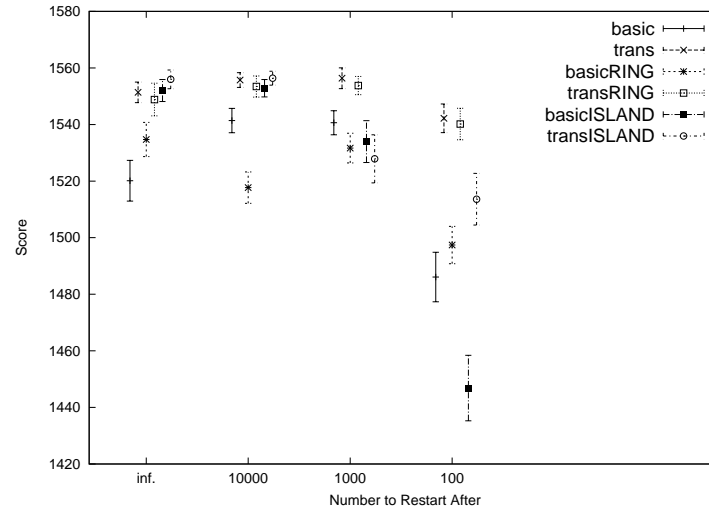


Figure B.652: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance f50_412

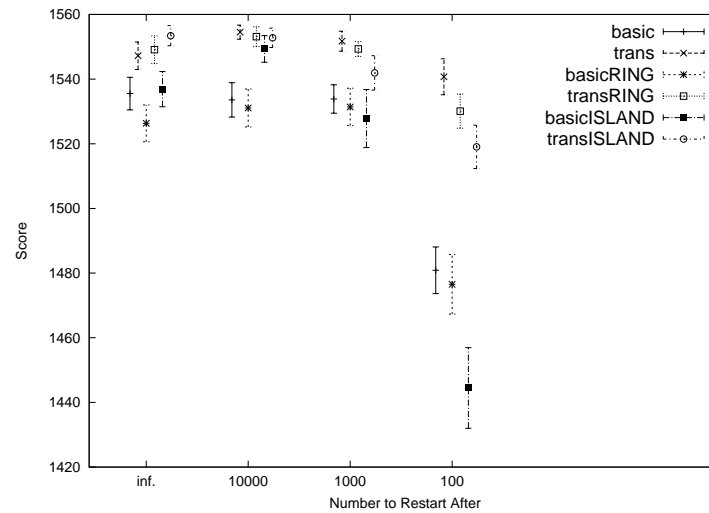


Figure B.653: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance f50_498

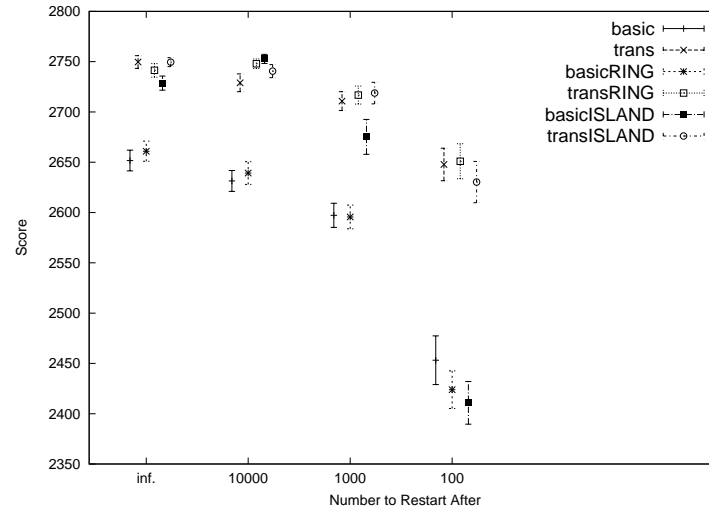


Figure B.654: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance f100_307

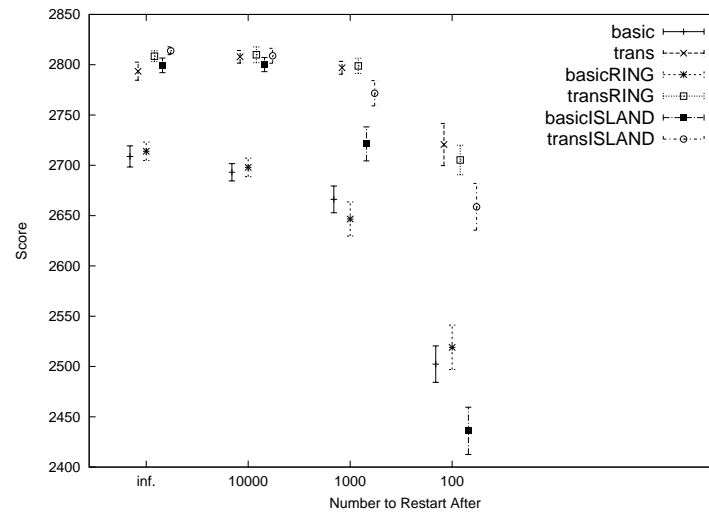


Figure B.655: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance f100_415

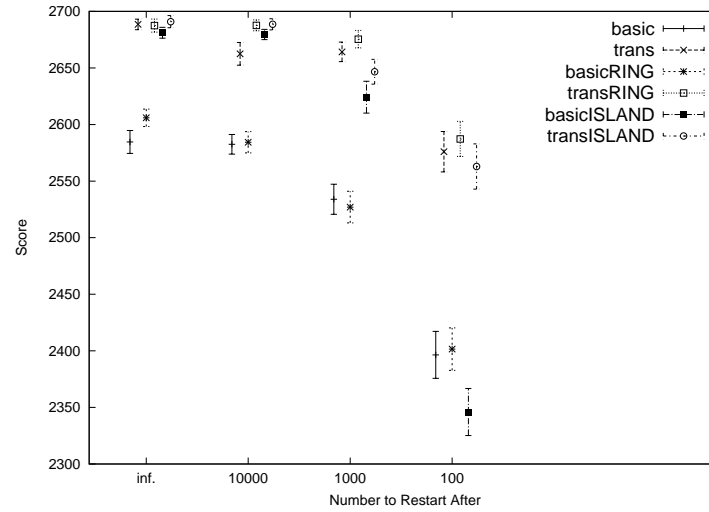


Figure B.656: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance f100_512

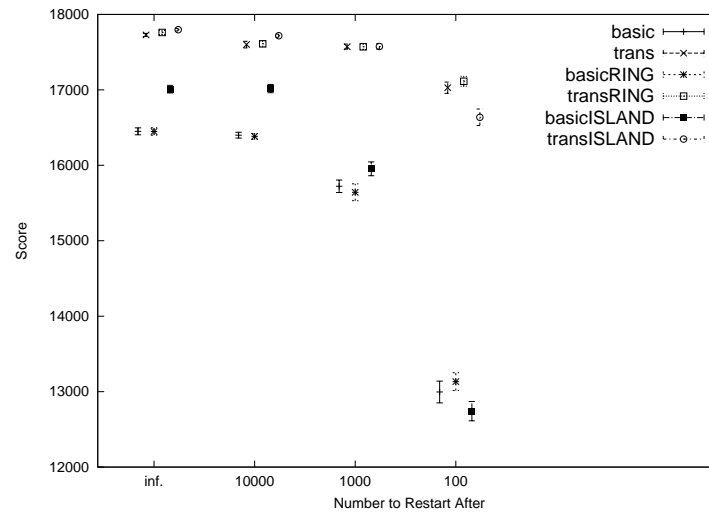


Figure B.657: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance f508_354

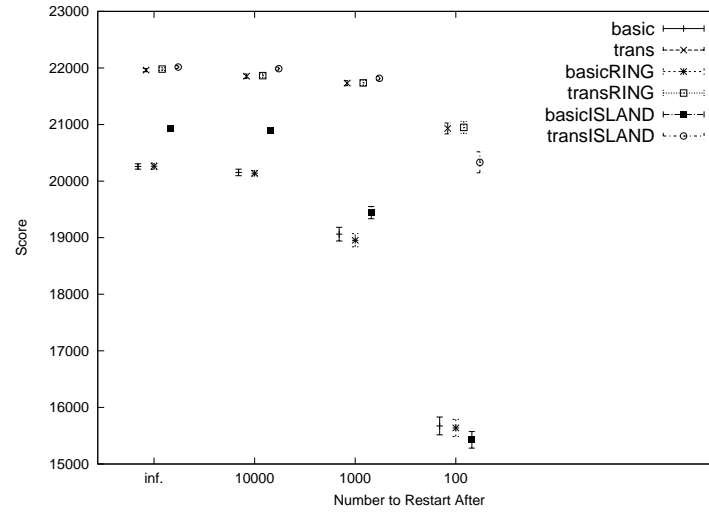


Figure B.658: Comparison of Best Results Between Algorithm Variations with No Post Optimizaition and Forced Recentre on Problem Instance f635_350

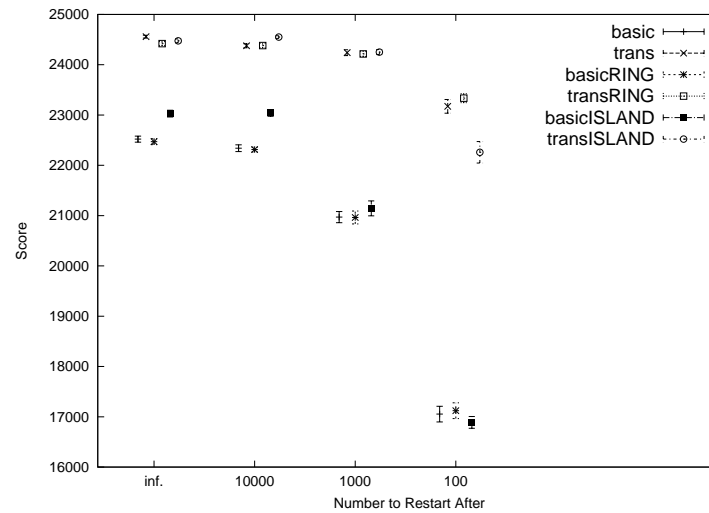


Figure B.659: Comparison of Best Results Between Algorithm Variations with No Post Optimizaition and Forced Recentre on Problem Instance f737_355

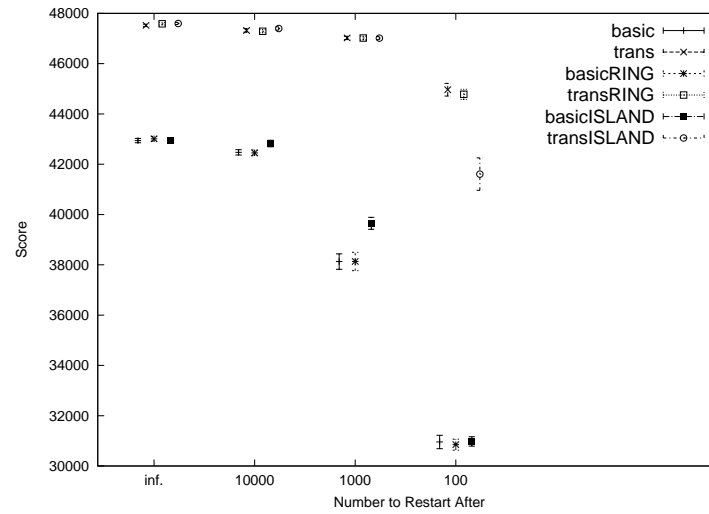


Figure B.660: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance f1343_354

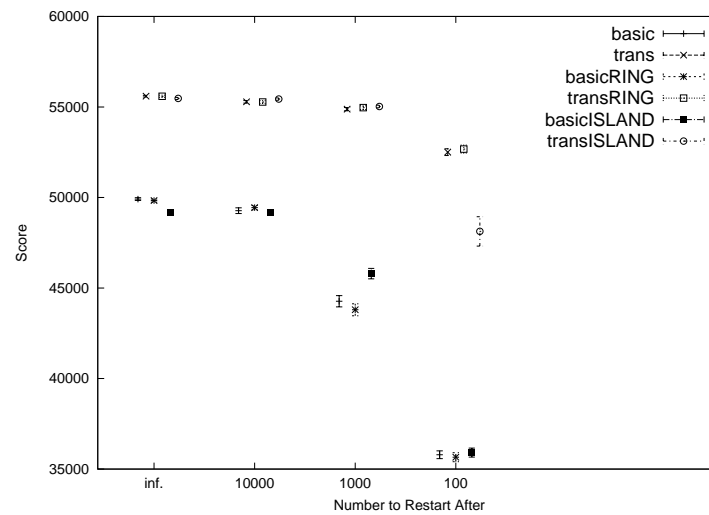


Figure B.661: Comparison of Best Results Between Algorithm Variations with No Post Optimizaiton and Forced Recentre on Problem Instance f1577_354

Results With Post Optimization and Forced Recentre

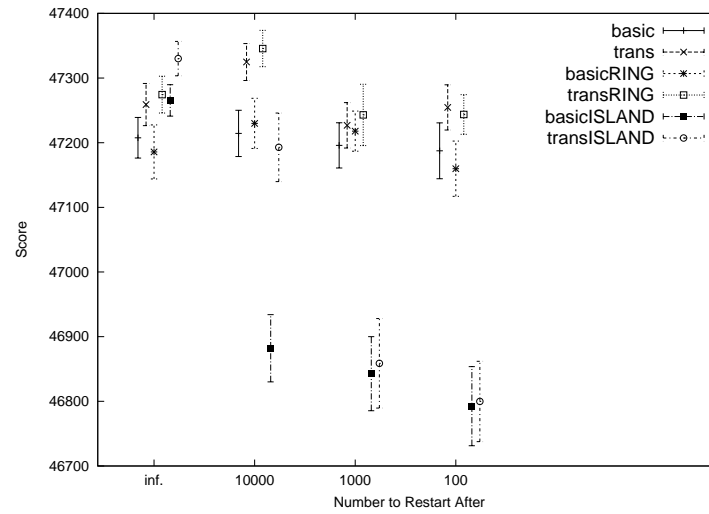


Figure B.662: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance acin1

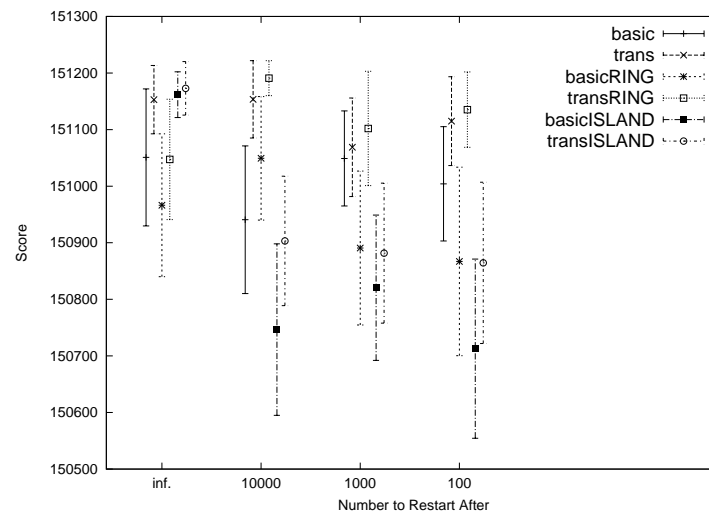


Figure B.663: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance acin2

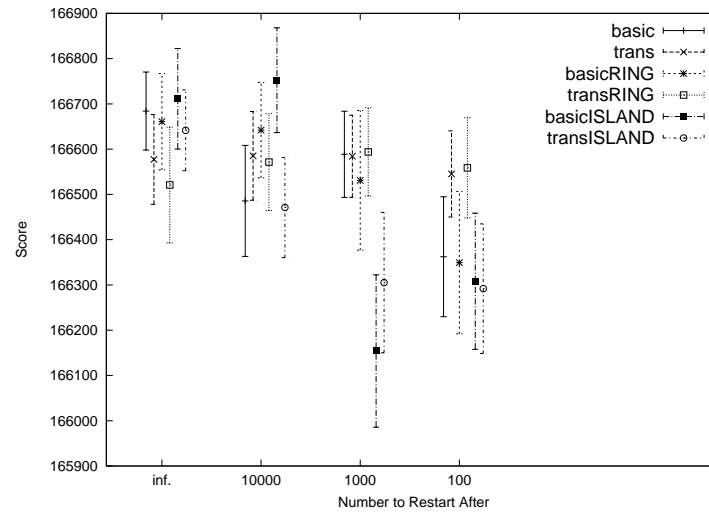


Figure B.664: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance acin3

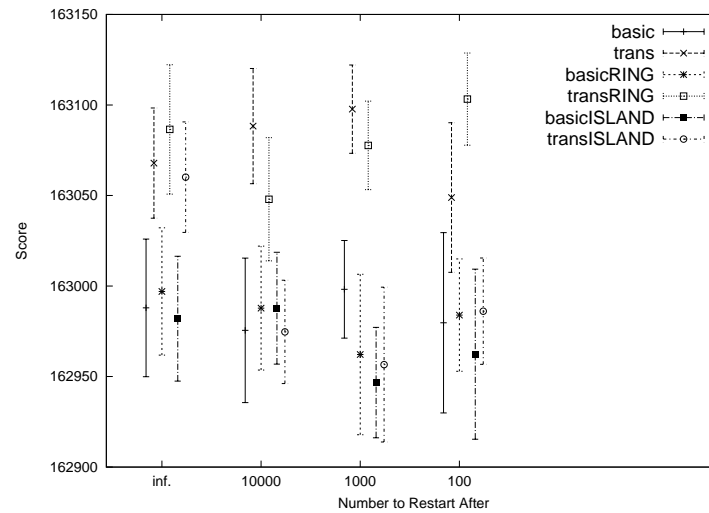


Figure B.665: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance acin5

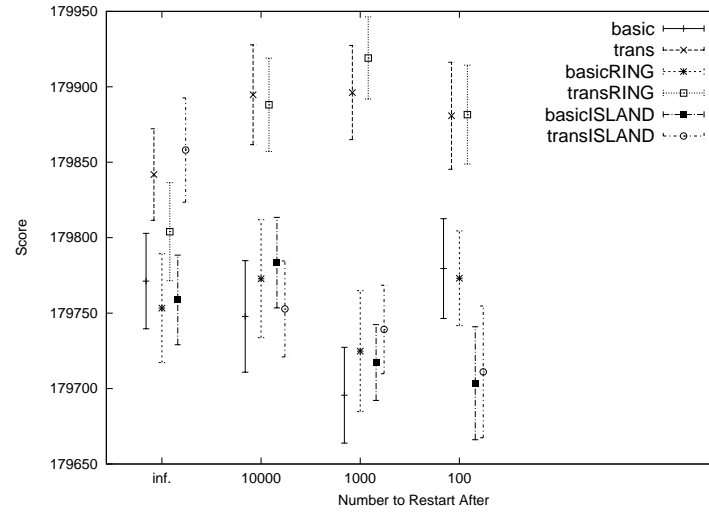


Figure B.666: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance acin7

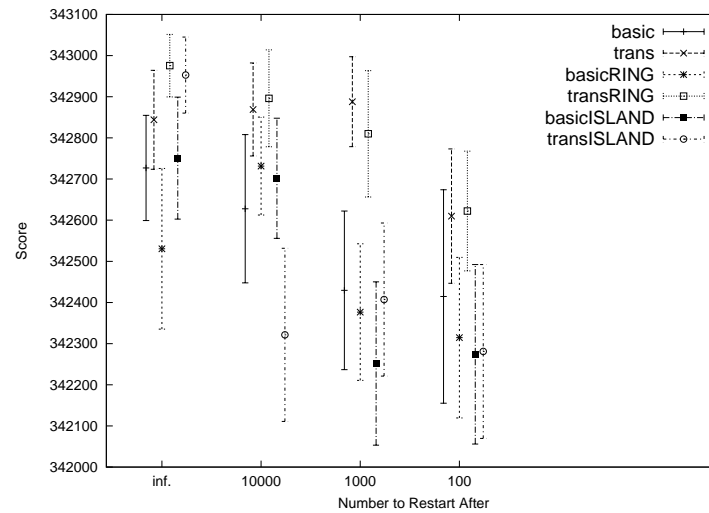


Figure B.667: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance acin9

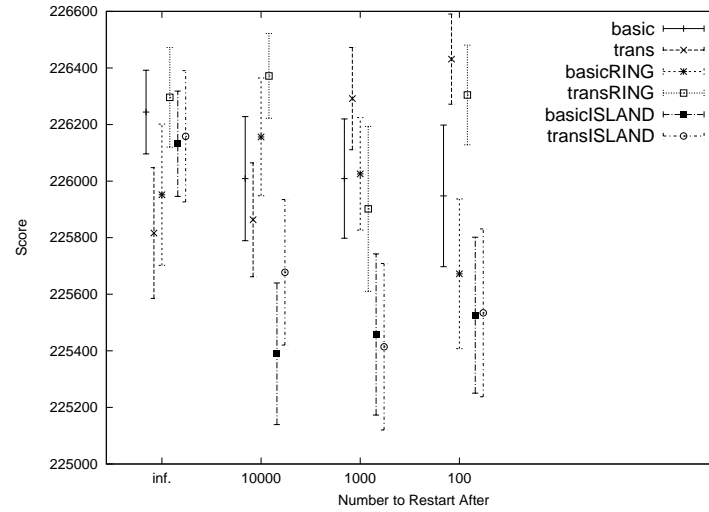


Figure B.668: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance bx842596_4

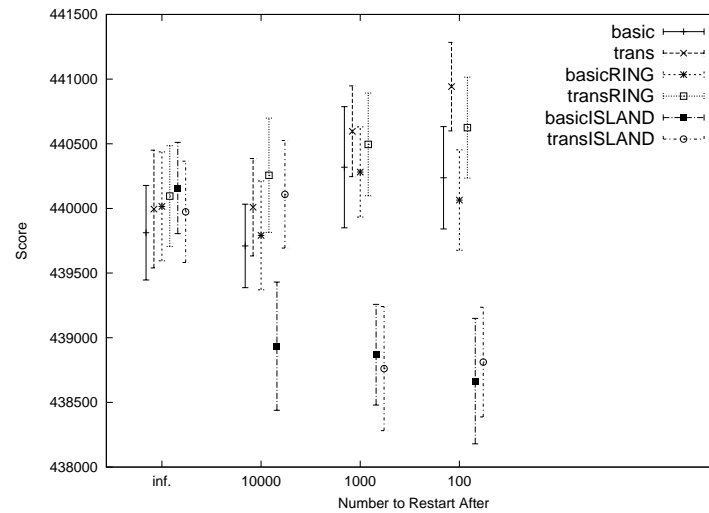


Figure B.669: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance bx842596_7

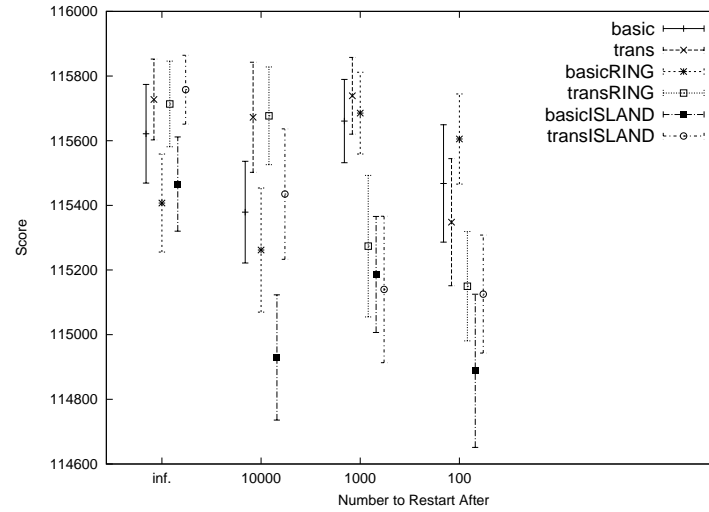


Figure B.670: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance j02459_7

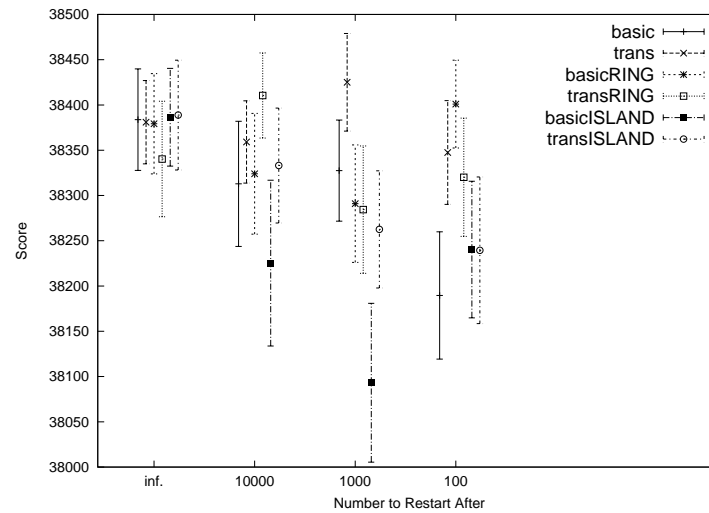


Figure B.671: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance m15421_5

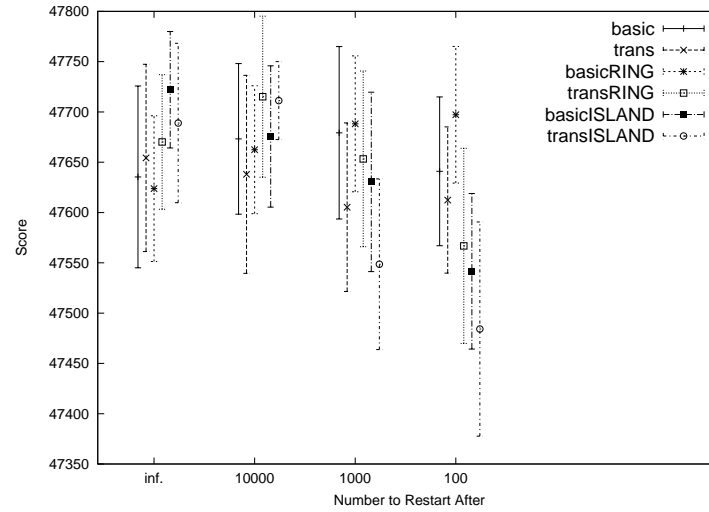


Figure B.672: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance m15421_6

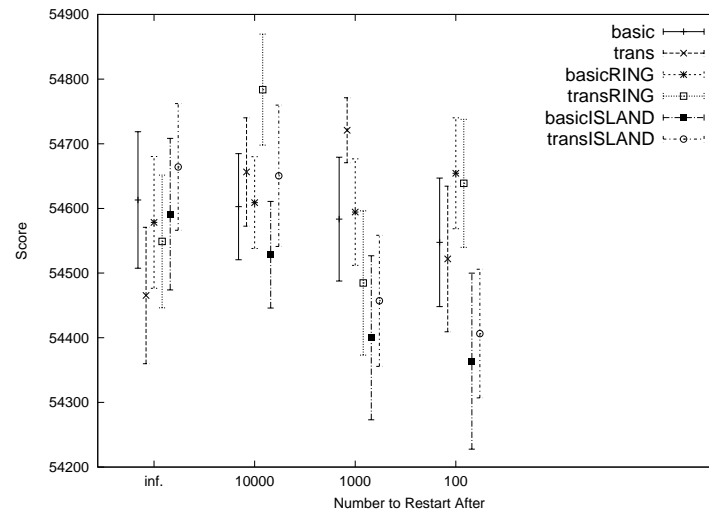


Figure B.673: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance m15421_7

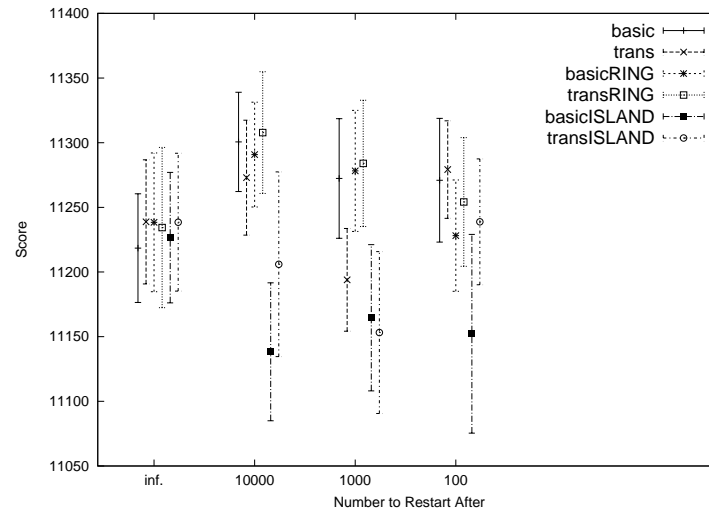


Figure B.674: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance x60189_4

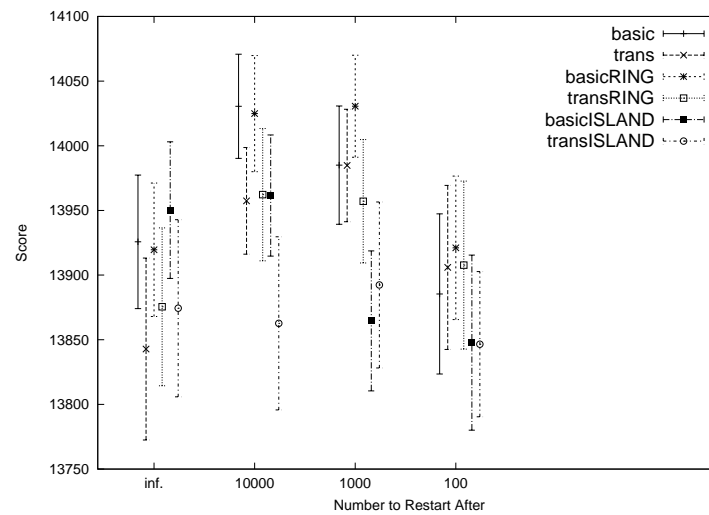


Figure B.675: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance x60189_5

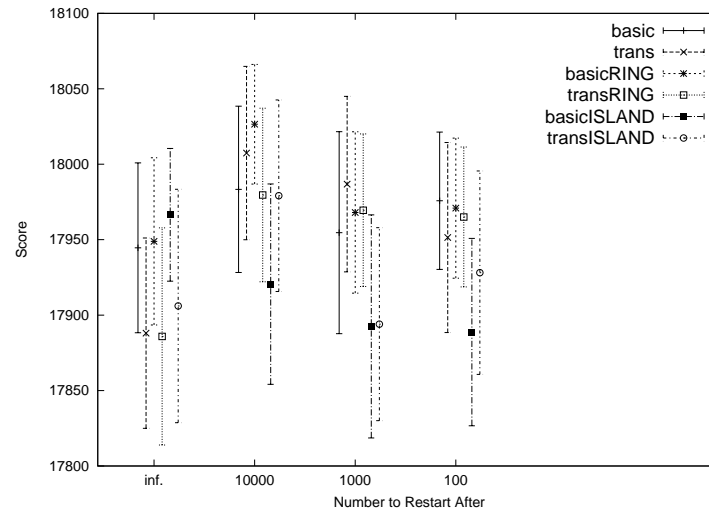


Figure B.676: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance x60189_6

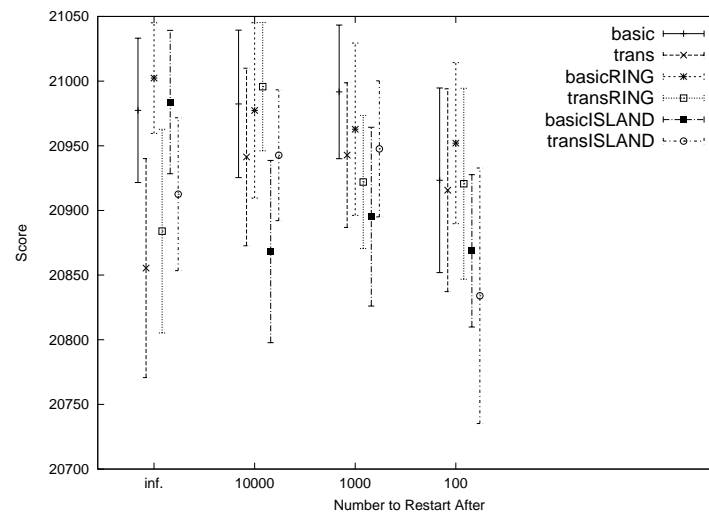


Figure B.677: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance x60189_7

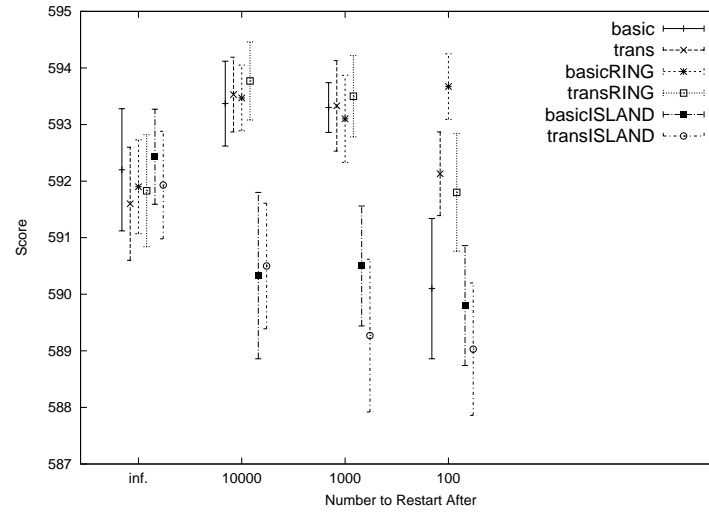


Figure B.678: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f25_305

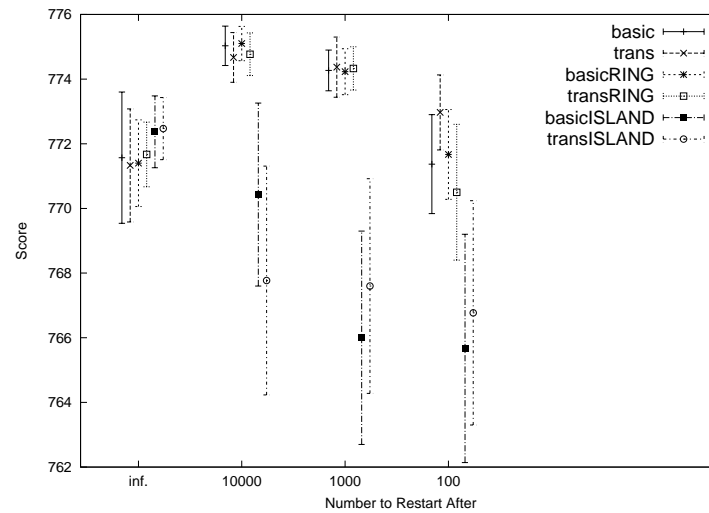


Figure B.679: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f25_400

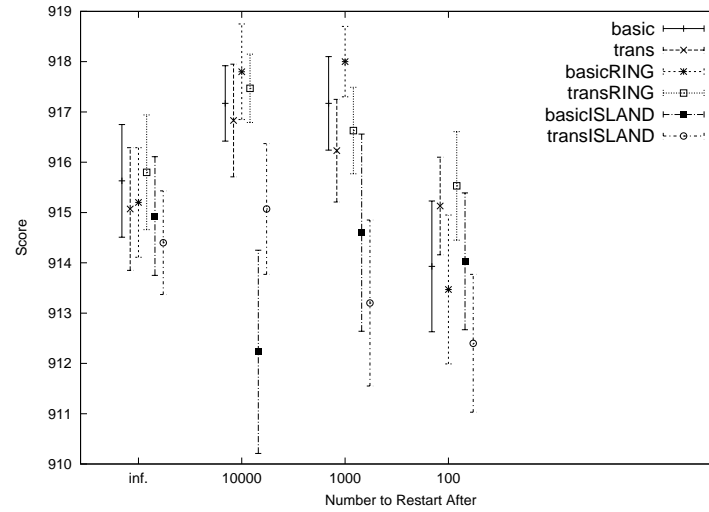


Figure B.680: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f25_500

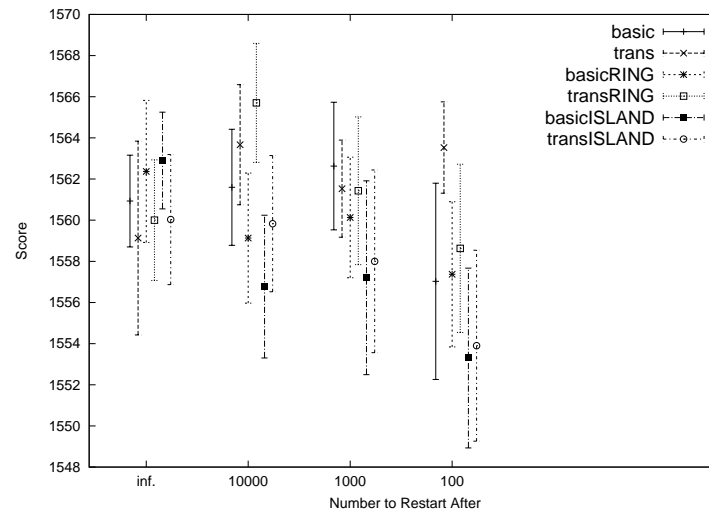


Figure B.681: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f50_315

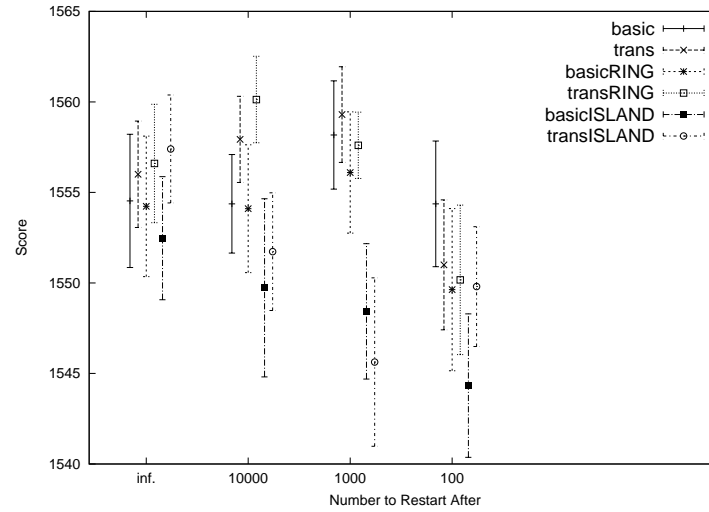


Figure B.682: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f50_412

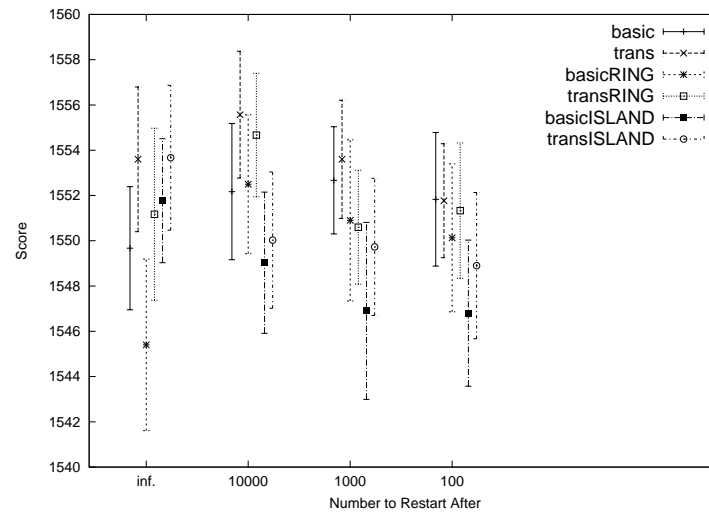


Figure B.683: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f50_498

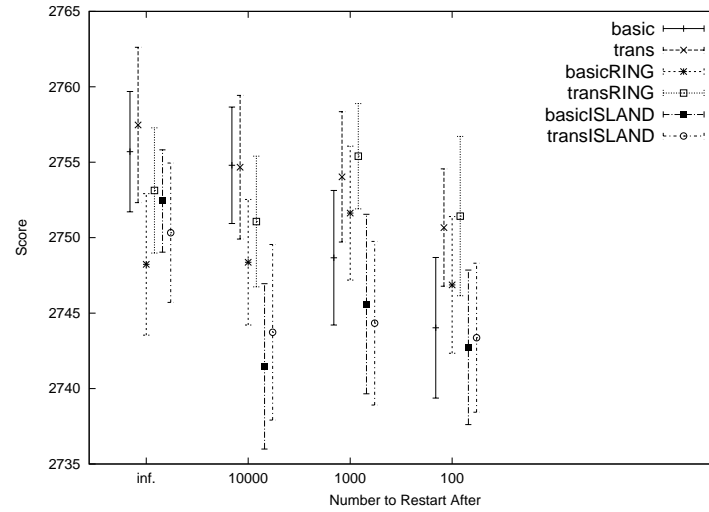


Figure B.684: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f100_307

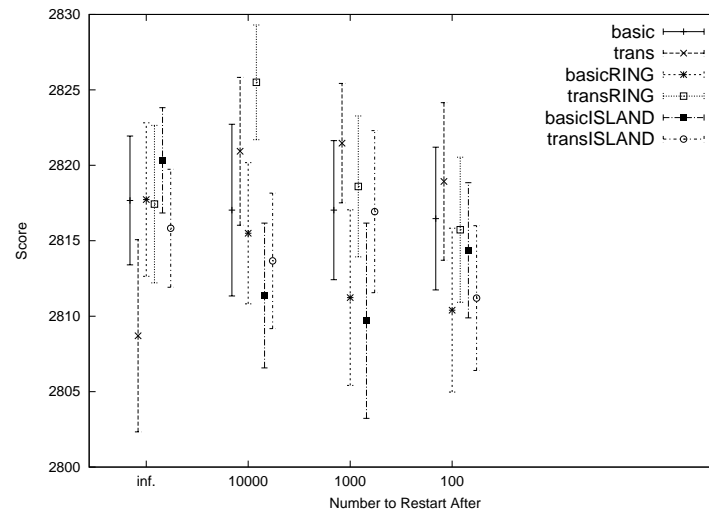


Figure B.685: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f100_415

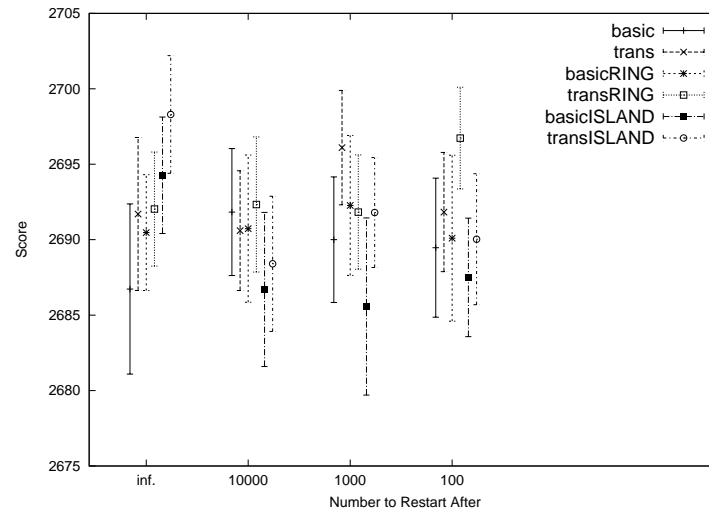


Figure B.686: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f100_512

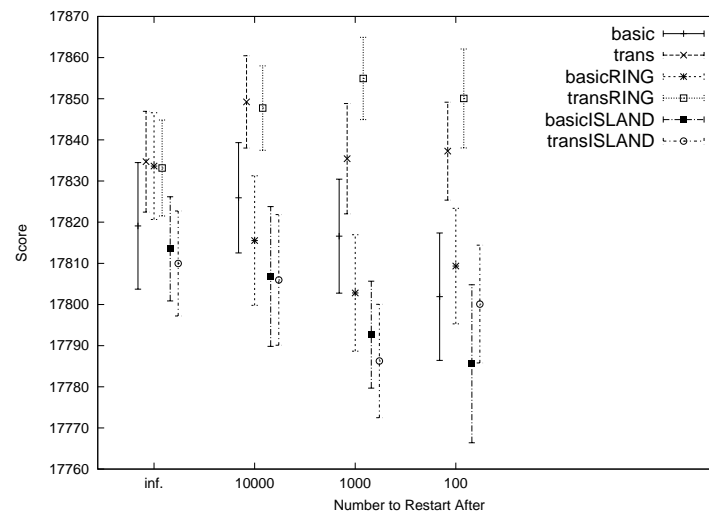


Figure B.687: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f508_354

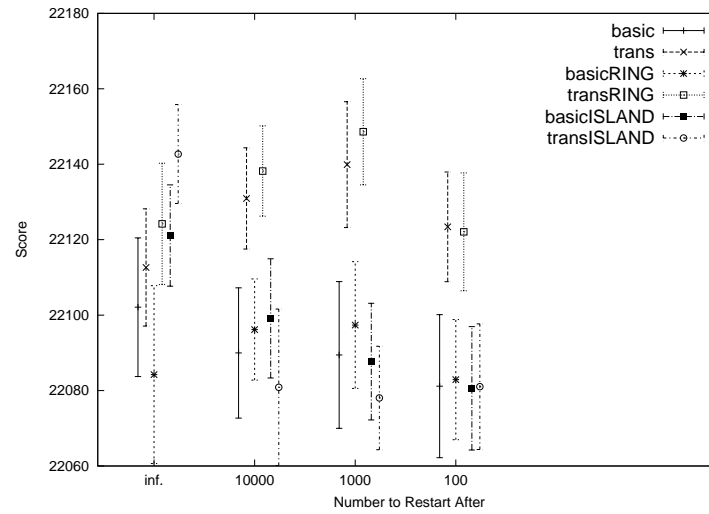


Figure B.688: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f635_350

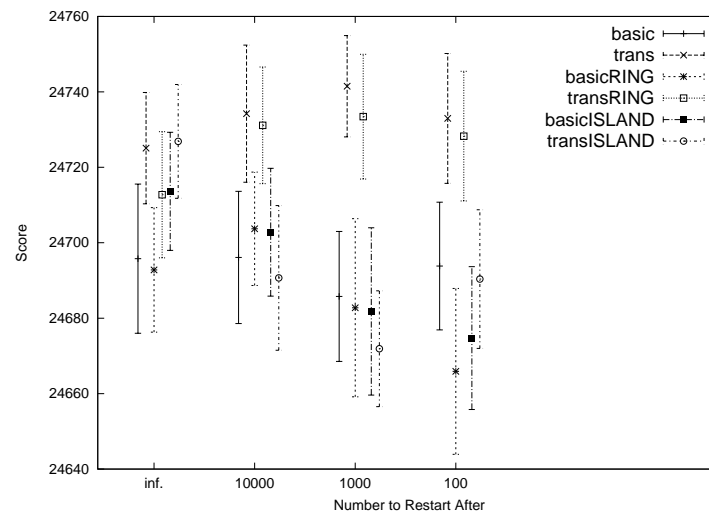


Figure B.689: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f737_355

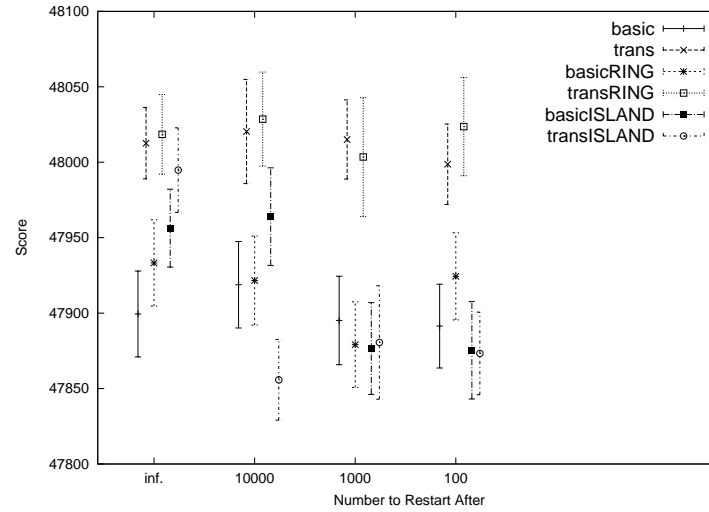


Figure B.690: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f1343_354

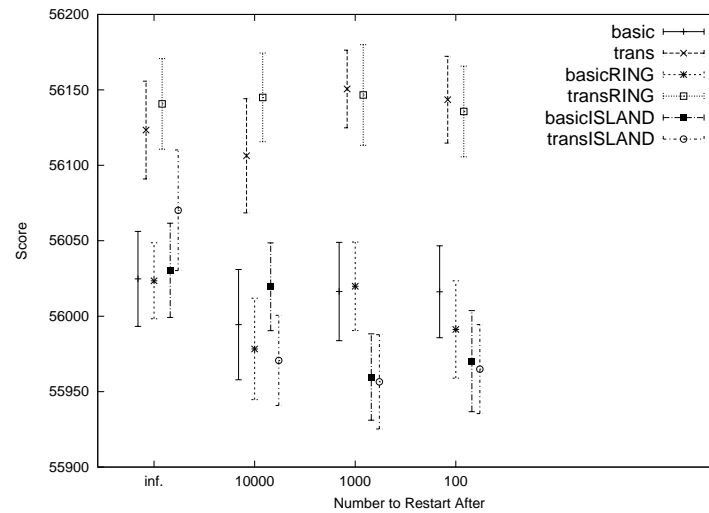


Figure B.691: Comparison of Best Results Between Algorithm Variations with Post Optimizaiton and Forced Recentre on Problem Instance f1577_354

Comparison of No Forced and Forced Recentre Experimental Results

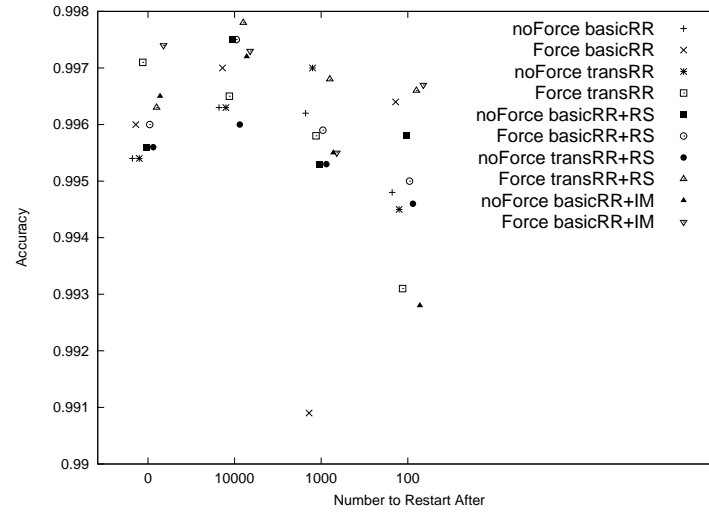


Figure B.692: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin1

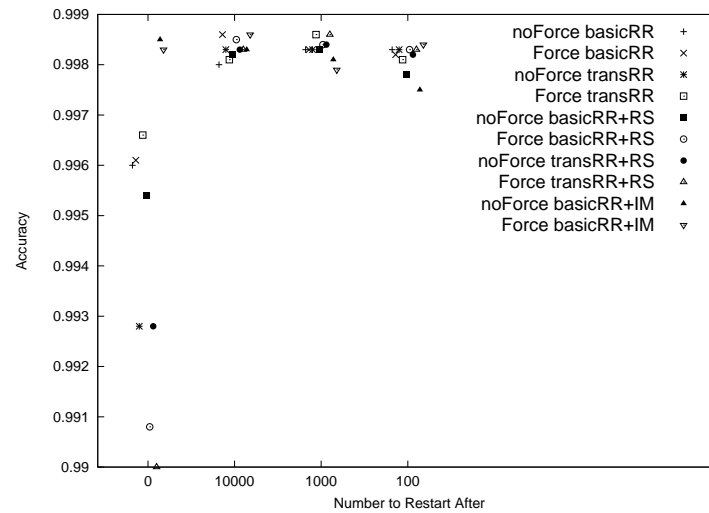


Figure B.693: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin2

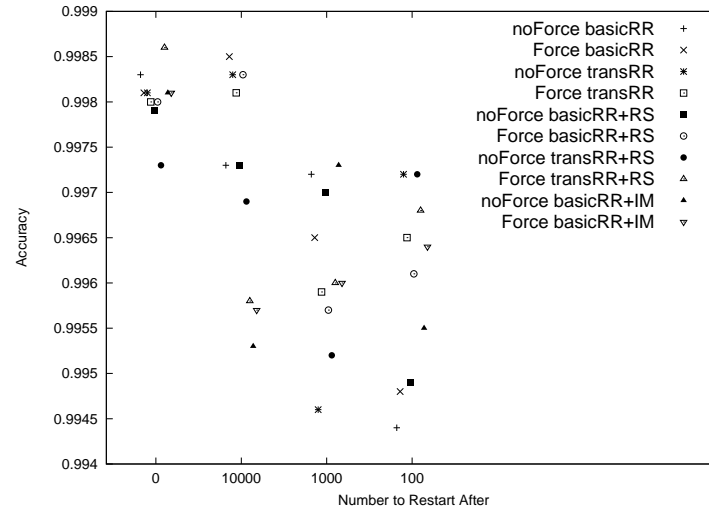


Figure B.694: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin3

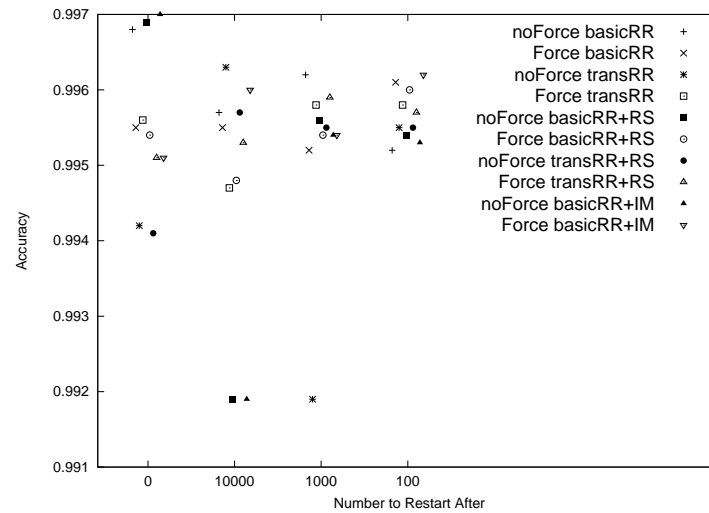


Figure B.695: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin5

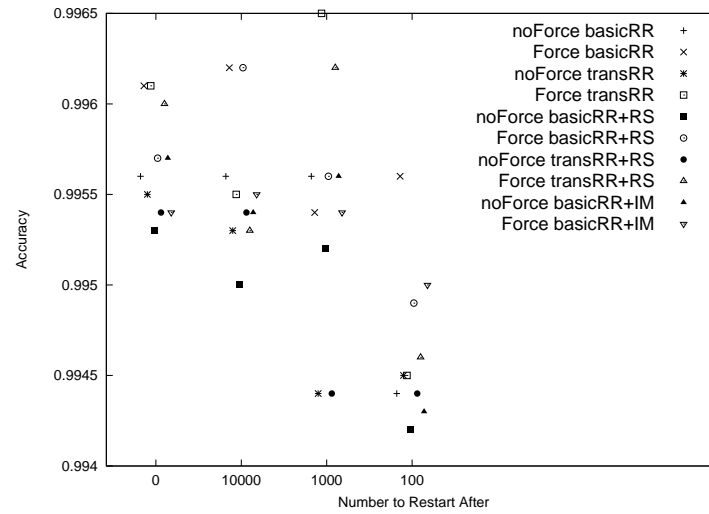


Figure B.696: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin7

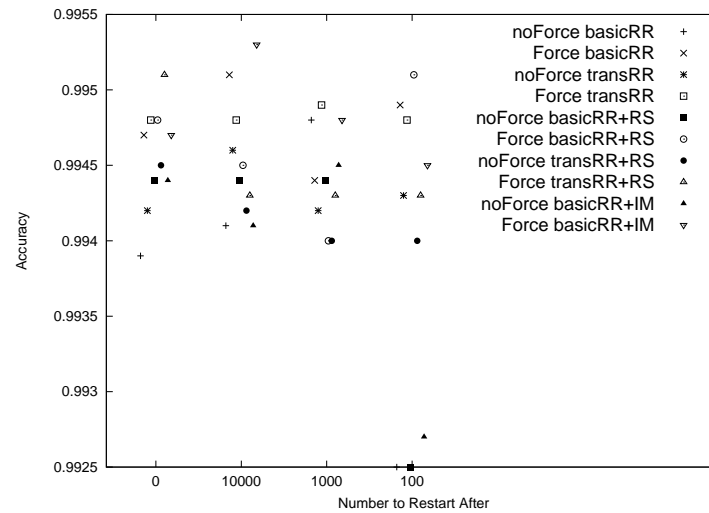


Figure B.697: Comparison of No Forced Recentre and Forced Recentre on Problem Instance acin9

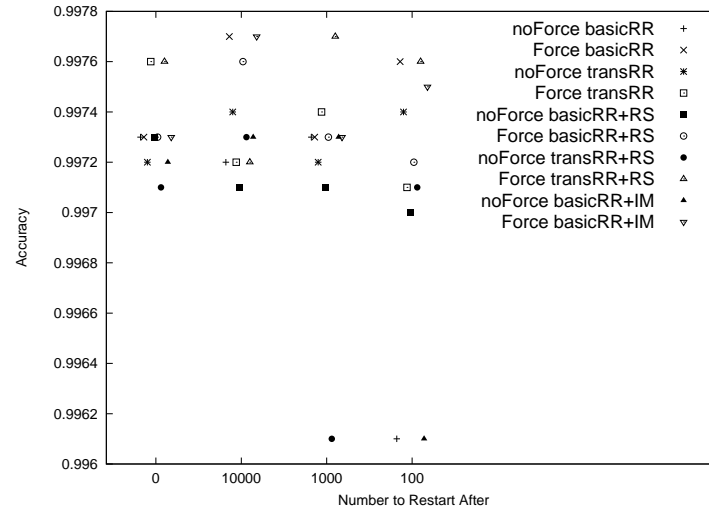


Figure B.698: Comparison of No Forced Recentre and Forced Recentre on Problem Instance bx842596_4

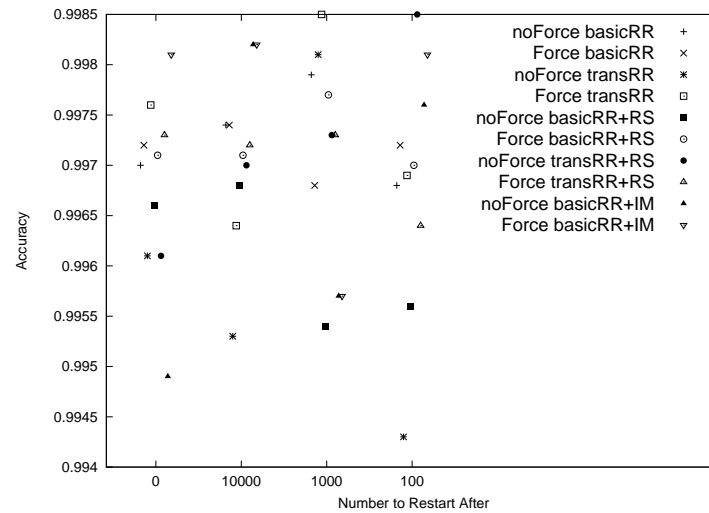


Figure B.699: Comparison of No Forced Recentre and Forced Recentre on Problem Instance bx842596_7

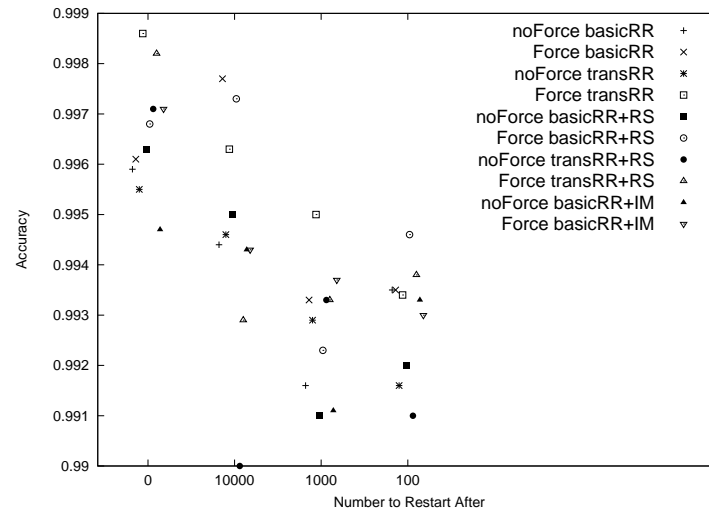


Figure B.700: Comparison of No Forced Recentre and Forced Recentre on Problem Instance j02459_7

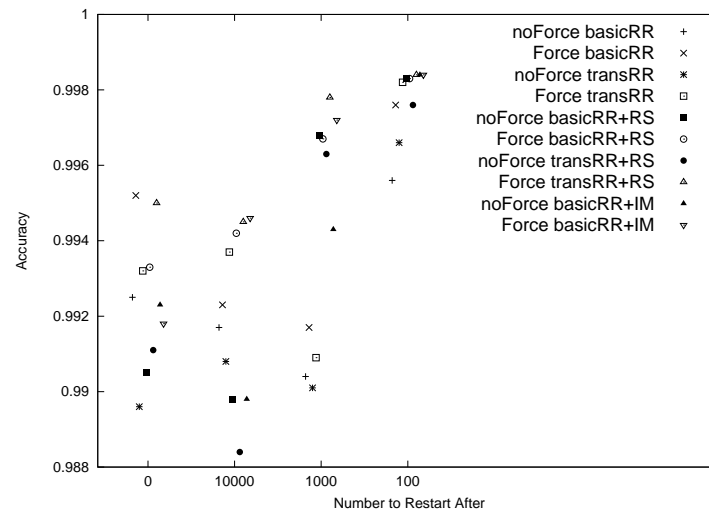


Figure B.701: Comparison of No Forced Recentre and Forced Recentre on Problem Instance m15421_5

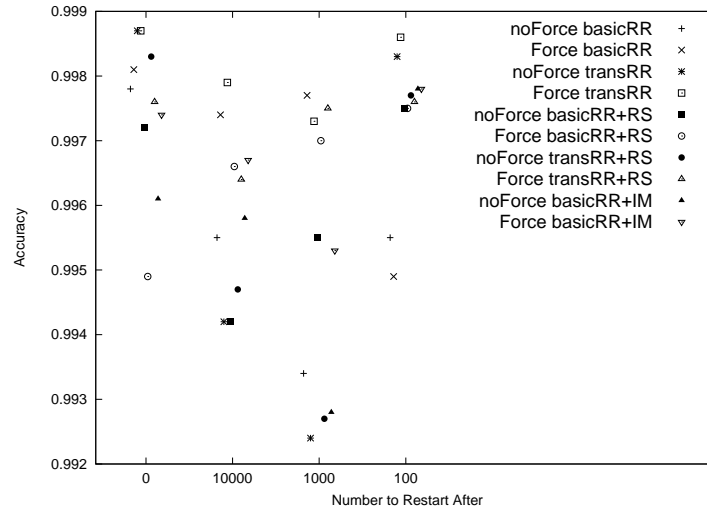


Figure B.702: Comparison of No Forced Recentre and Forced Recentre on Problem Instance m15421_6

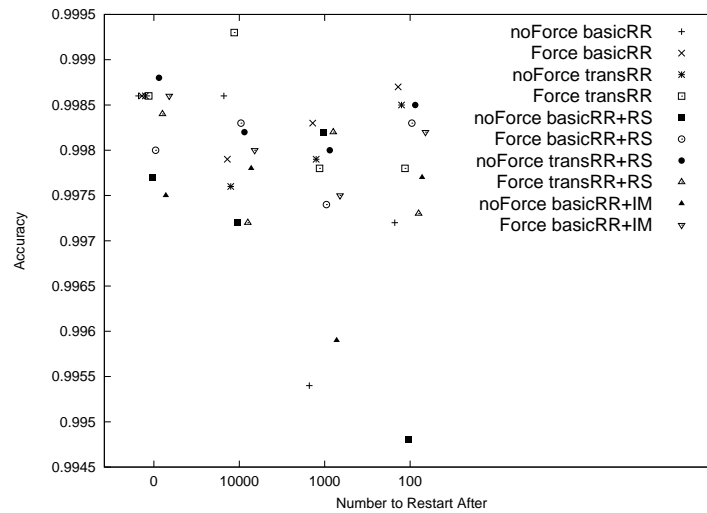


Figure B.703: Comparison of No Forced Recentre and Forced Recentre on Problem Instance m15421_7

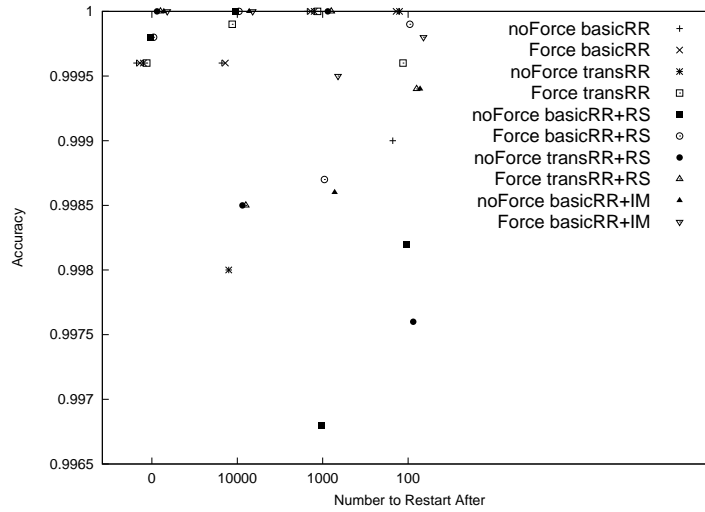


Figure B.704: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_4

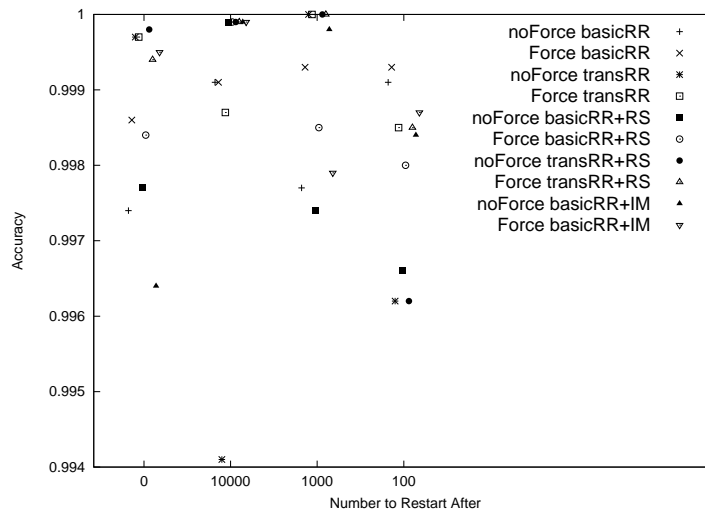


Figure B.705: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_5

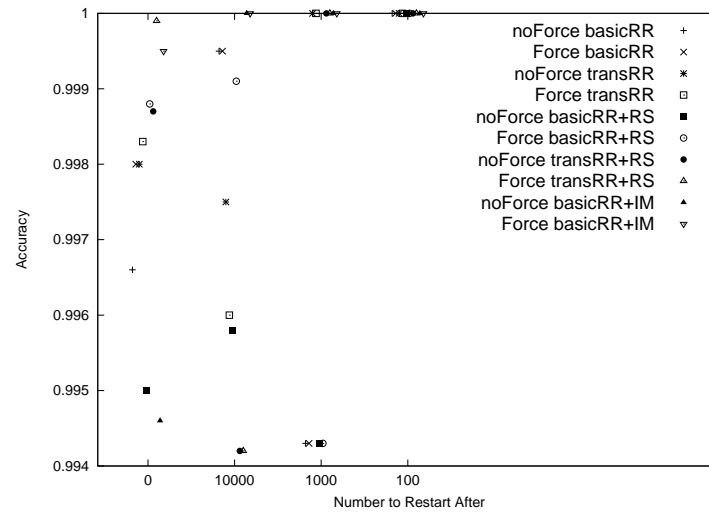


Figure B.706: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_6

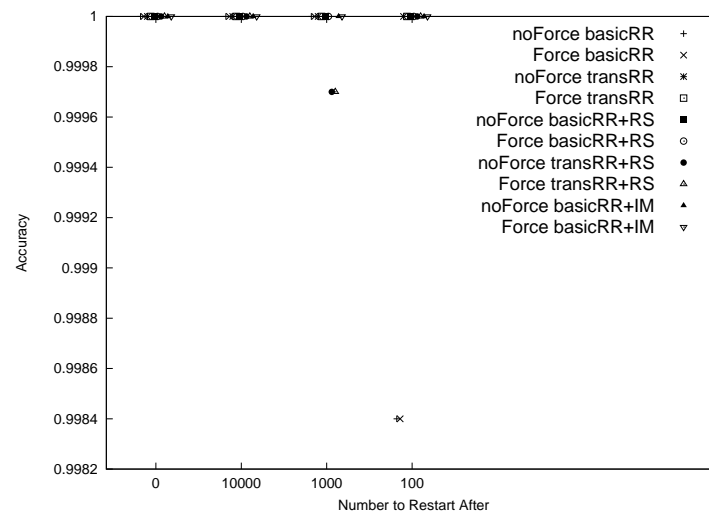


Figure B.707: Comparison of No Forced Recentre and Forced Recentre on Problem Instance x60189_7

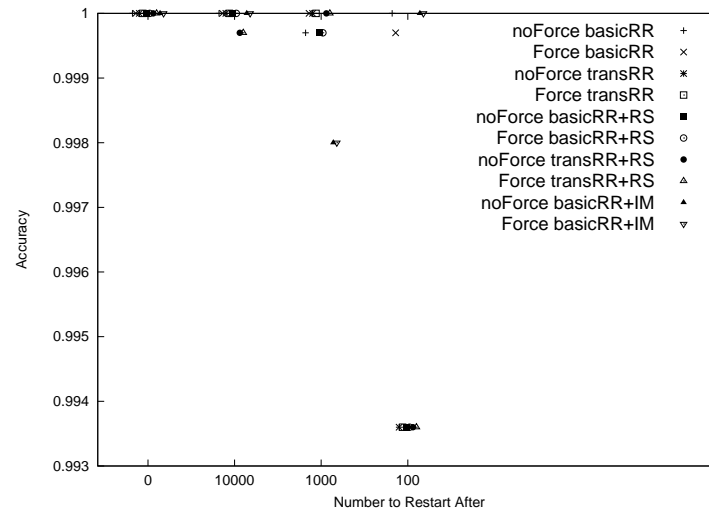


Figure B.708: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f25_305

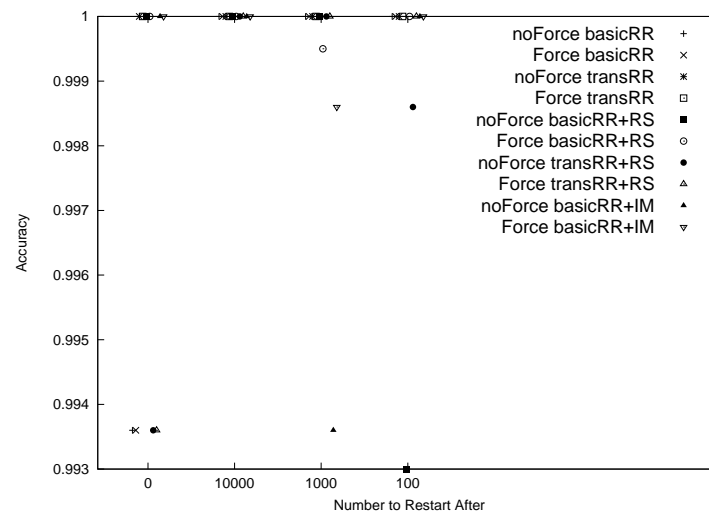


Figure B.709: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f25_400

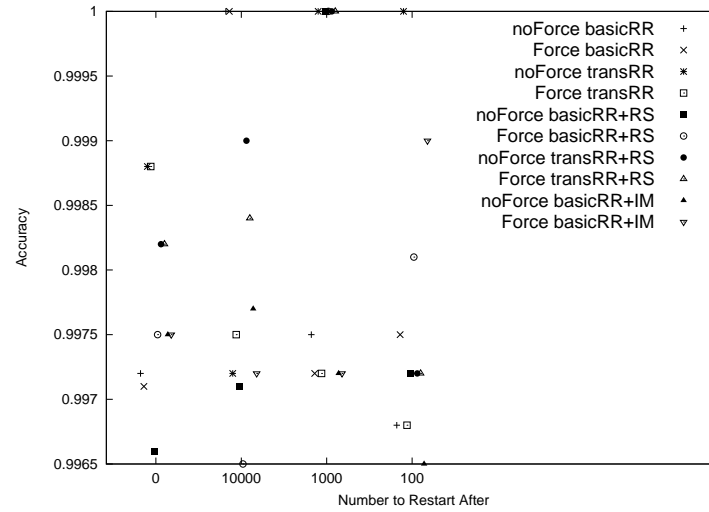


Figure B.710: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f25_500

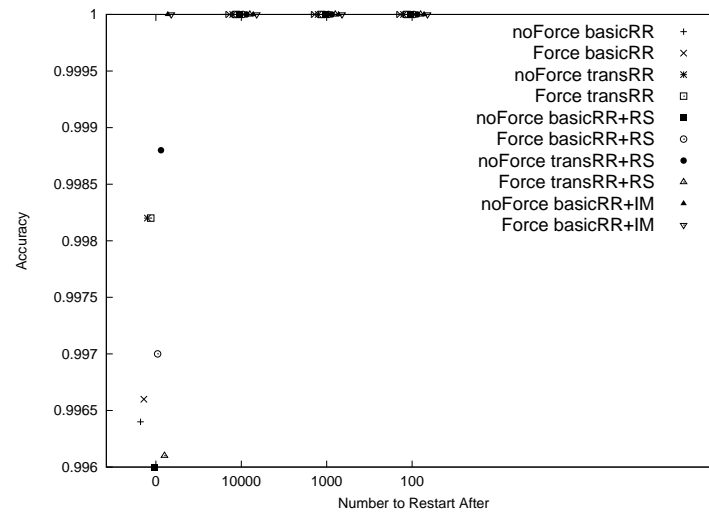


Figure B.711: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f50_315

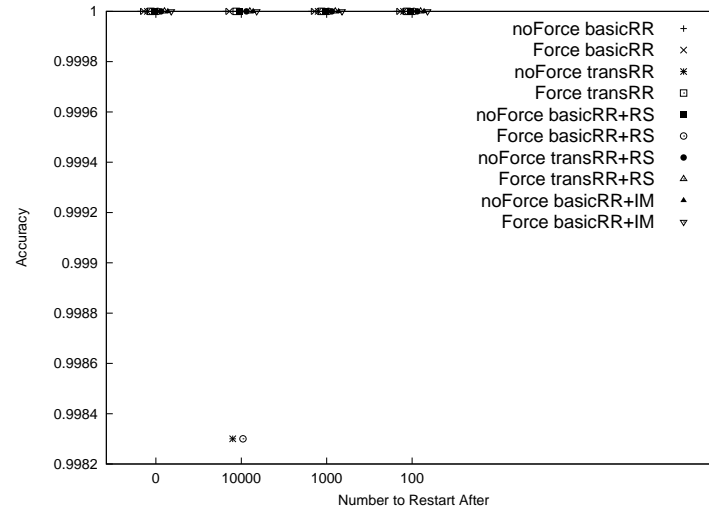


Figure B.712: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f50_412

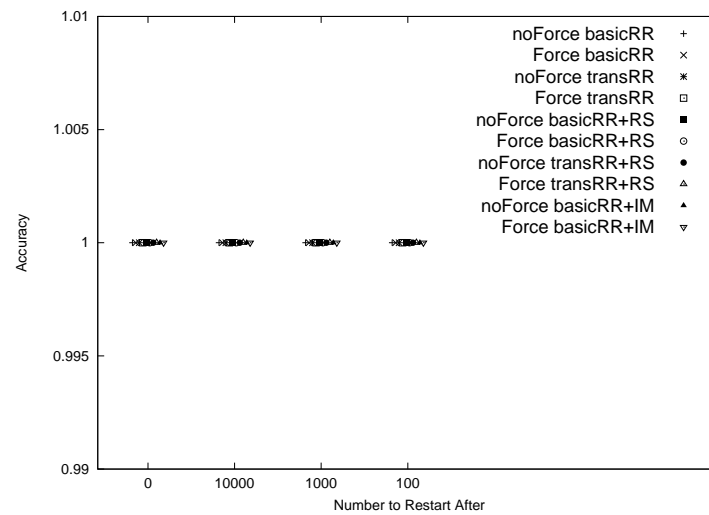


Figure B.713: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f50_498

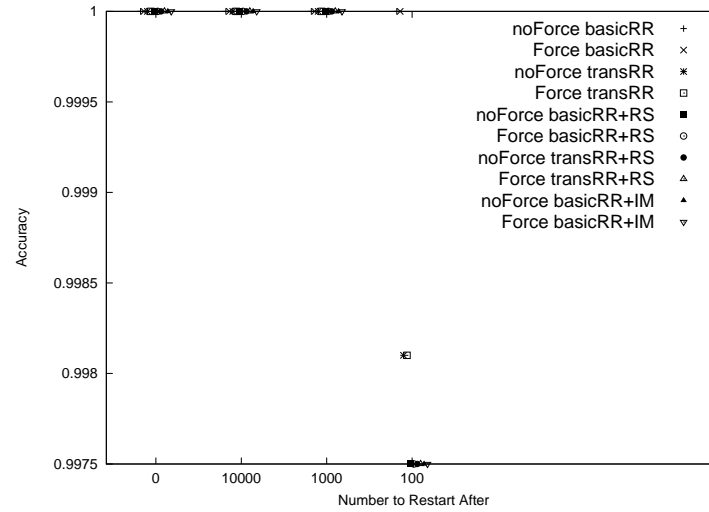


Figure B.714: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f100_307

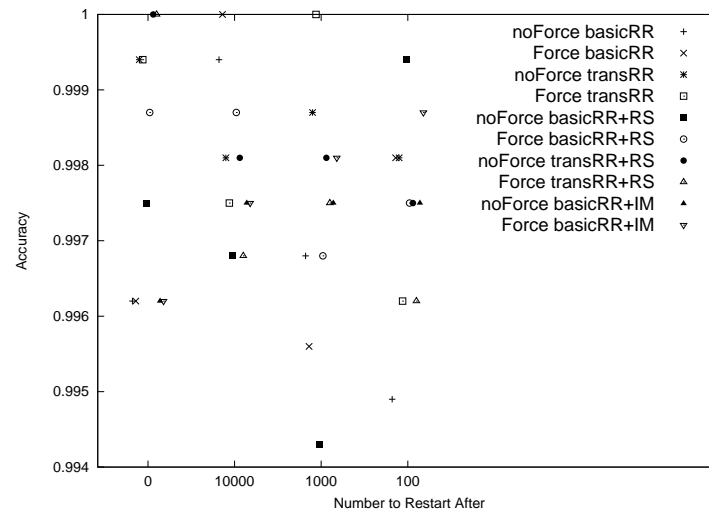


Figure B.715: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f100_415

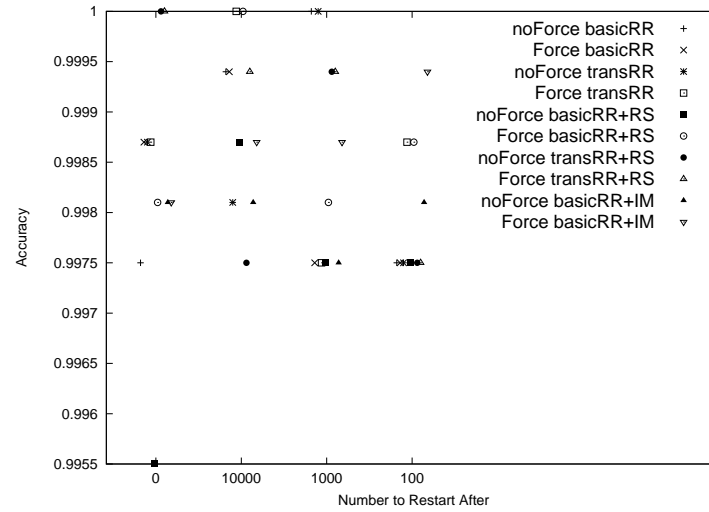


Figure B.716: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f100_512

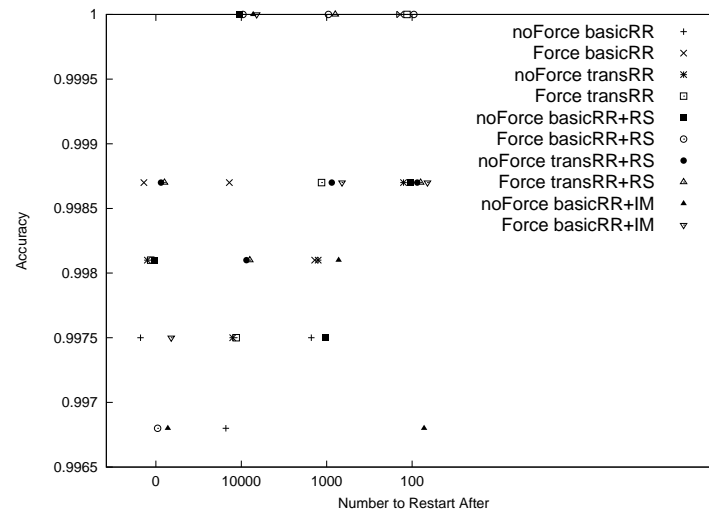


Figure B.717: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f508_354

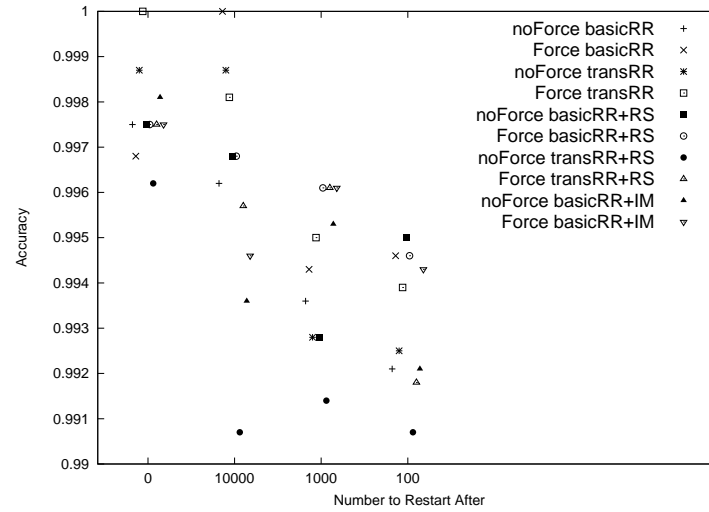


Figure B.718: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f635_350

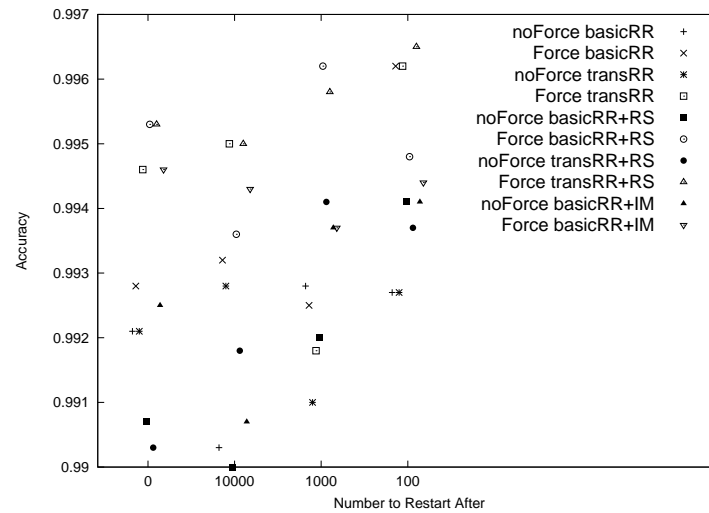


Figure B.719: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f737_355

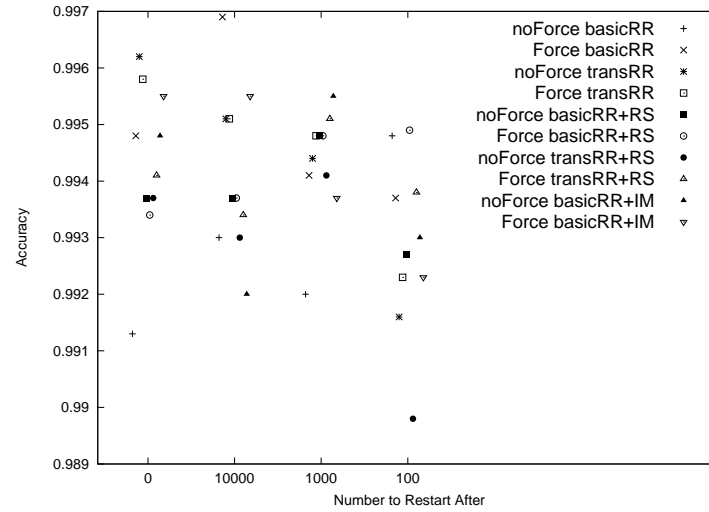


Figure B.720: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f1343_354

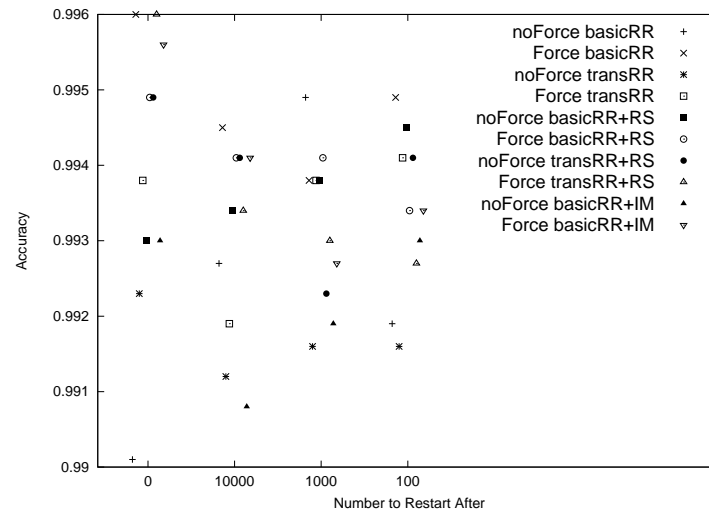


Figure B.721: Comparison of No Forced Recentre and Forced Recentre on Problem Instance f1577_354

Comparison of Third and Fourth Set of Experimental Results With Forced Restarts

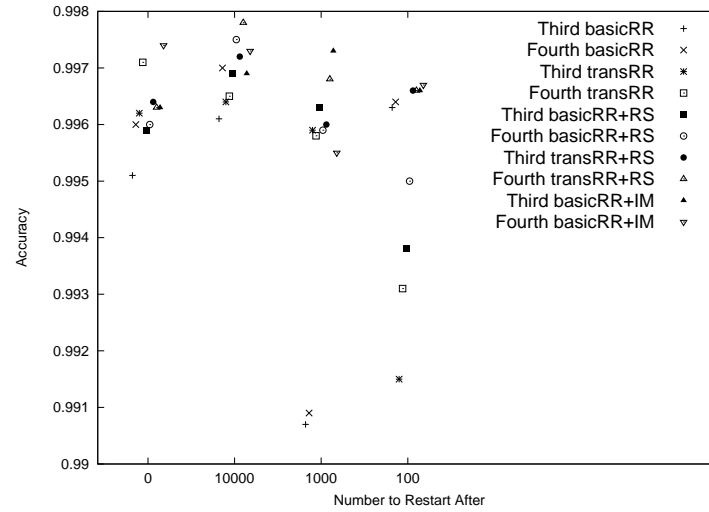


Figure B.722: Comparison of Third and Fourth Experimental Results on Problem Instance acin1

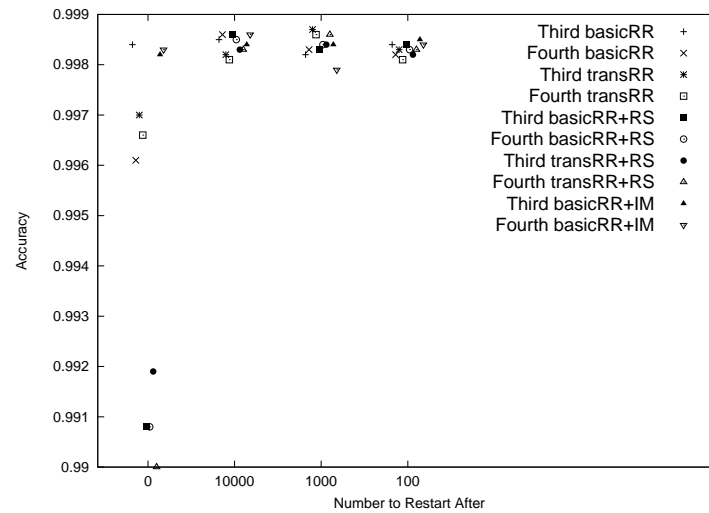


Figure B.723: Comparison of Third and Fourth Experimental Results on Problem Instance acin2

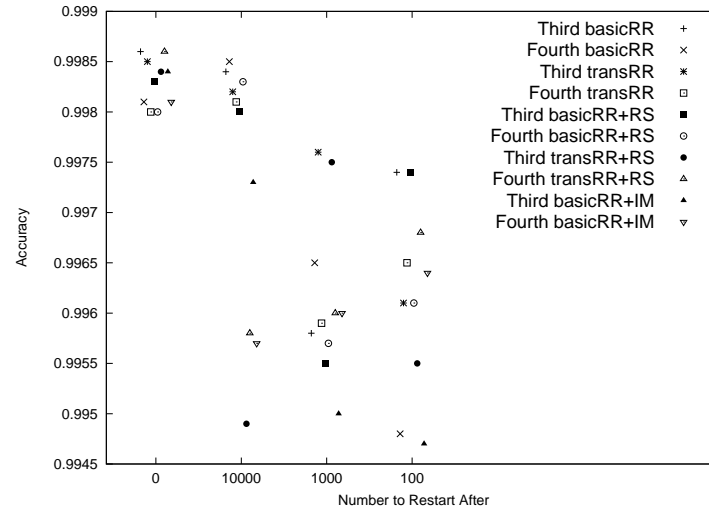


Figure B.724: Comparison of Third and Fourth Experimental Results on Problem Instance acin3

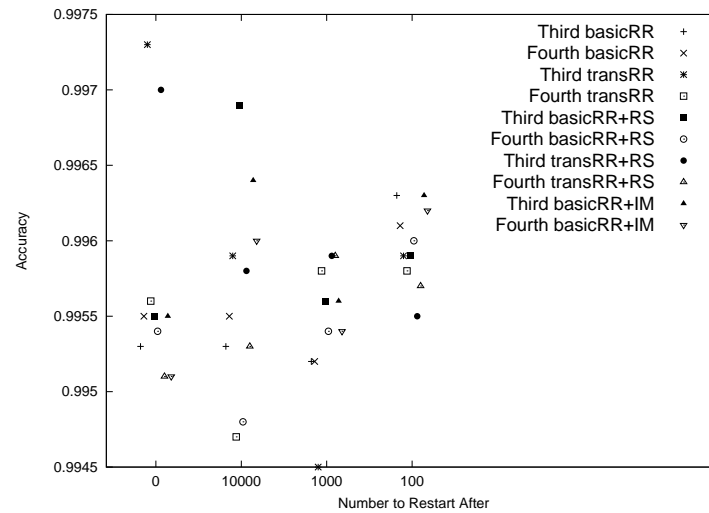


Figure B.725: Comparison of Third and Fourth Experimental Results on Problem Instance acin5

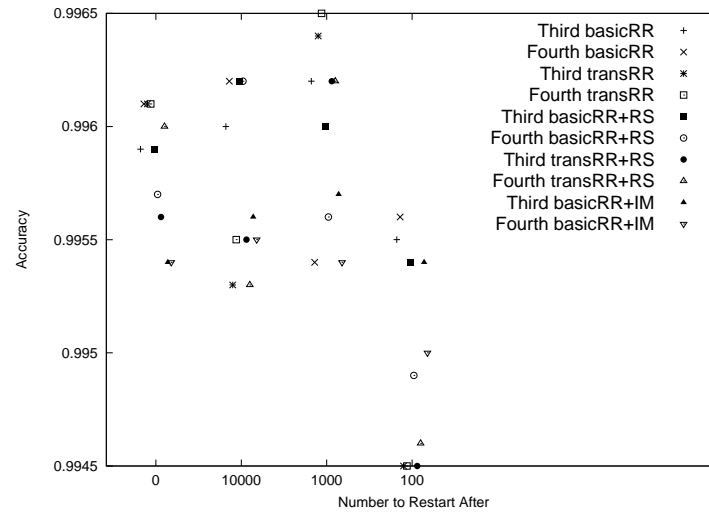


Figure B.726: Comparison of Third and Fourth Experimental Results on Problem Instance acin7

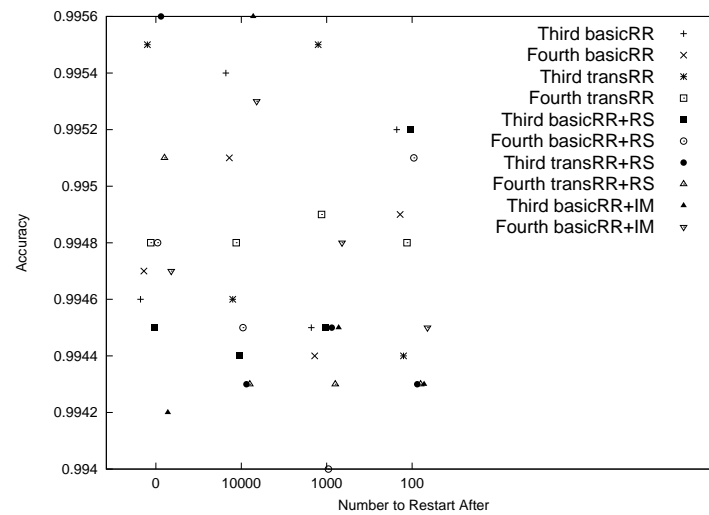


Figure B.727: Comparison of Third and Fourth Experimental Results on Problem Instance acin9

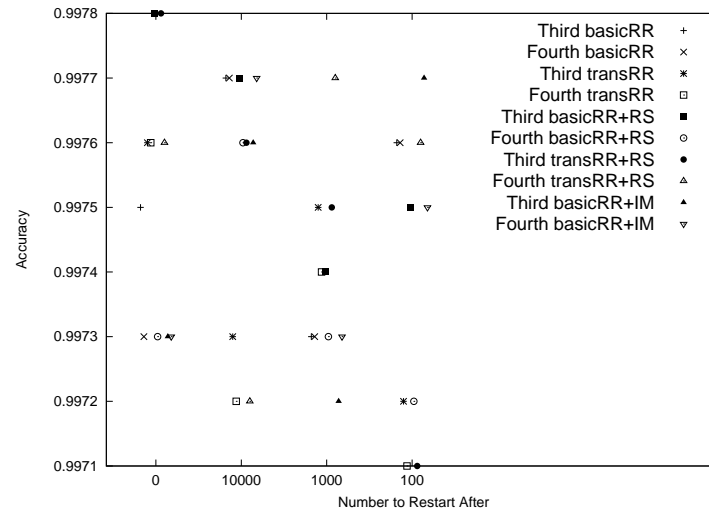


Figure B.728: Comparison of Third and Fourth Experimental Results on Problem Instance bx842596_4

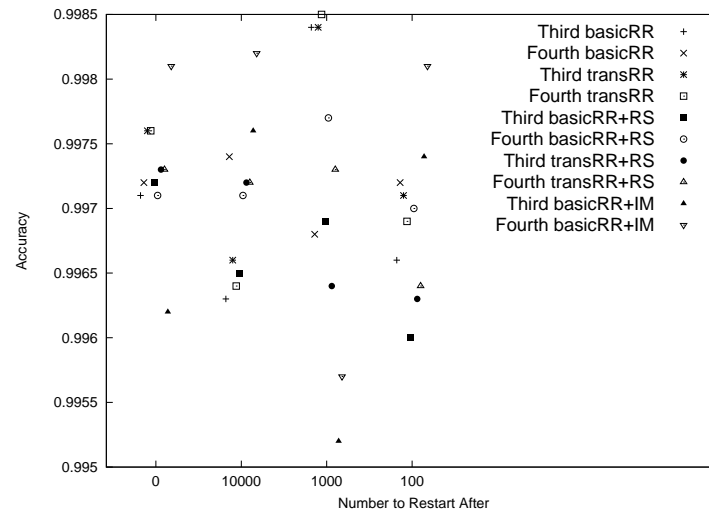


Figure B.729: Comparison of Third and Fourth Experimental Results on Problem Instance bx842596_7

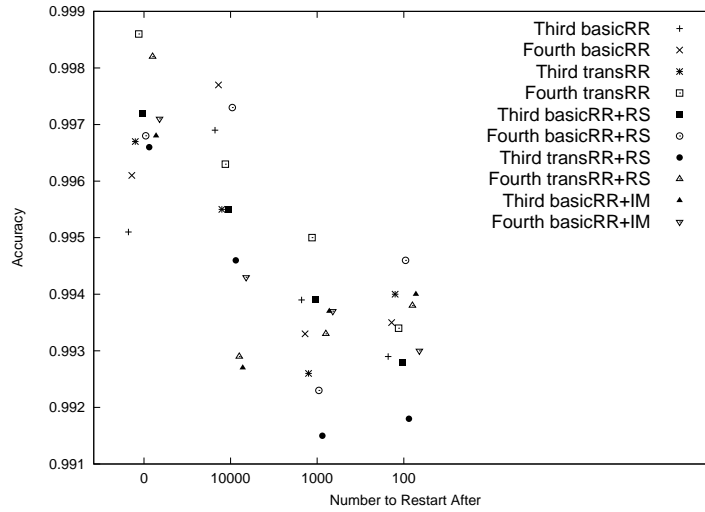


Figure B.730: Comparison of Third and Fourth Experimental Results on Problem Instance j02459_7

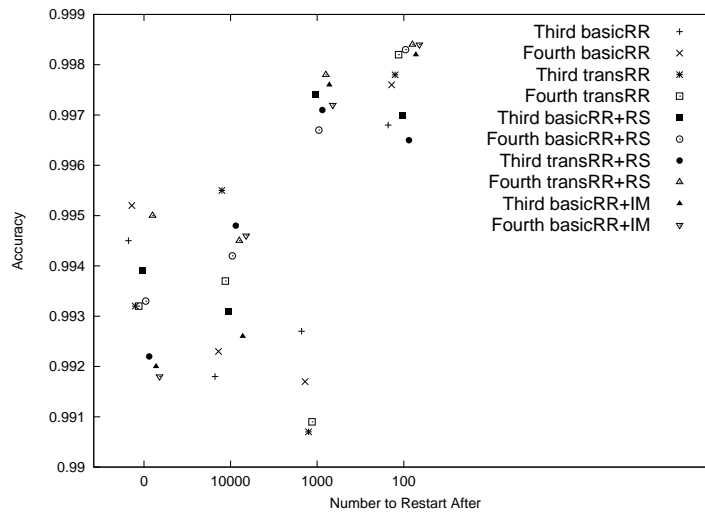


Figure B.731: Comparison of Third and Fourth Experimental Results on Problem Instance m15421_5

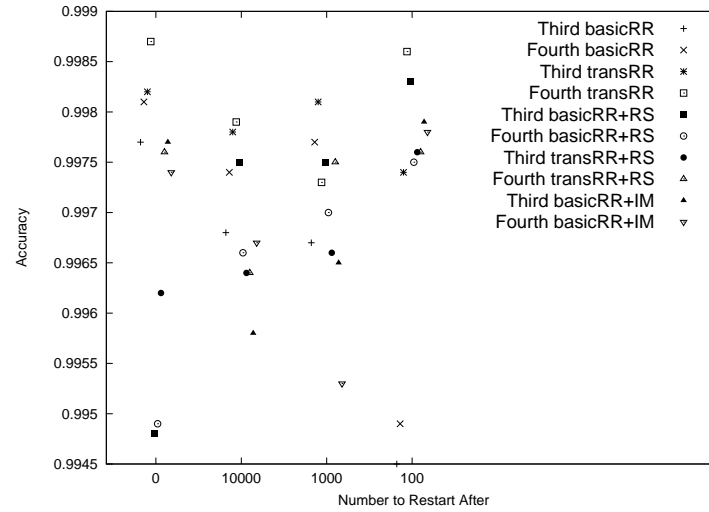


Figure B.732: Comparison of Third and Fourth Experimental Results on Problem Instance m15421_6

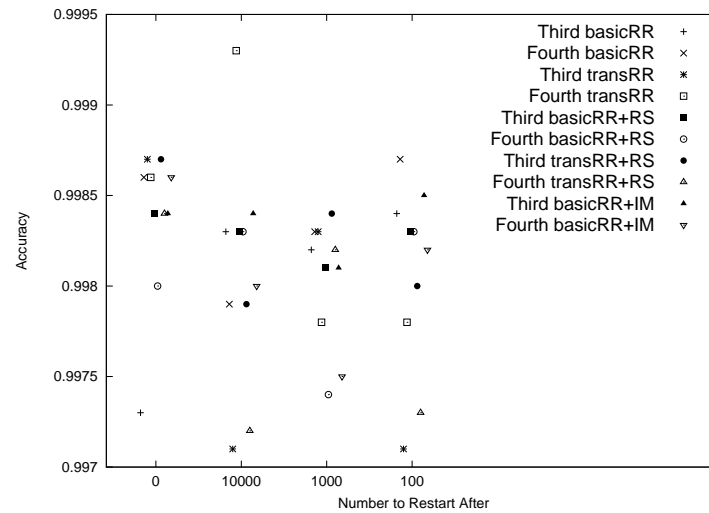


Figure B.733: Comparison of Third and Fourth Experimental Results on Problem Instance m15421_7

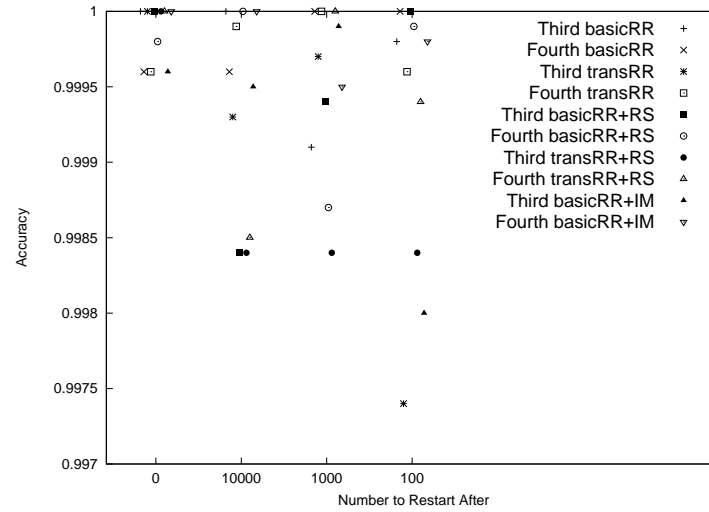


Figure B.734: Comparison of Third and Fourth Experimental Results on Problem Instance x60189_4

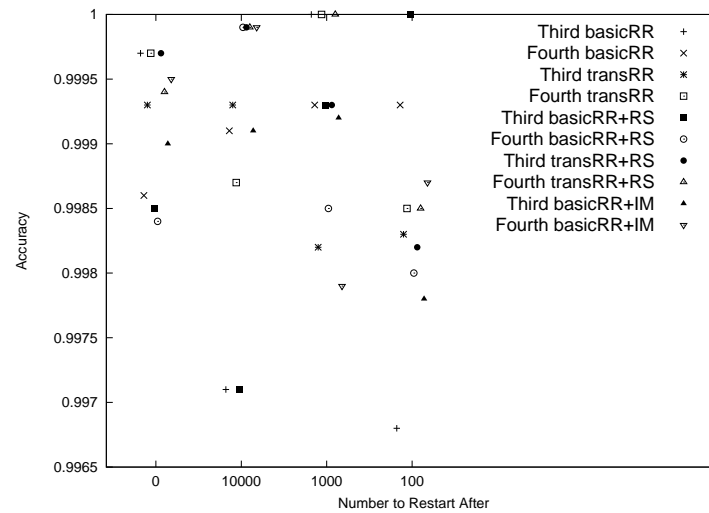


Figure B.735: Comparison of Third and Fourth Experimental Results on Problem Instance x60189_5

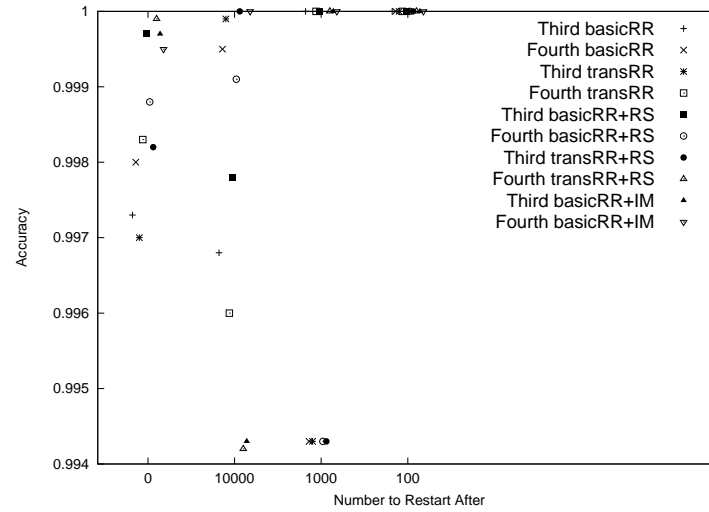


Figure B.736: Comparison of Third and Fourth Experimental Results on Problem Instance x60189_6

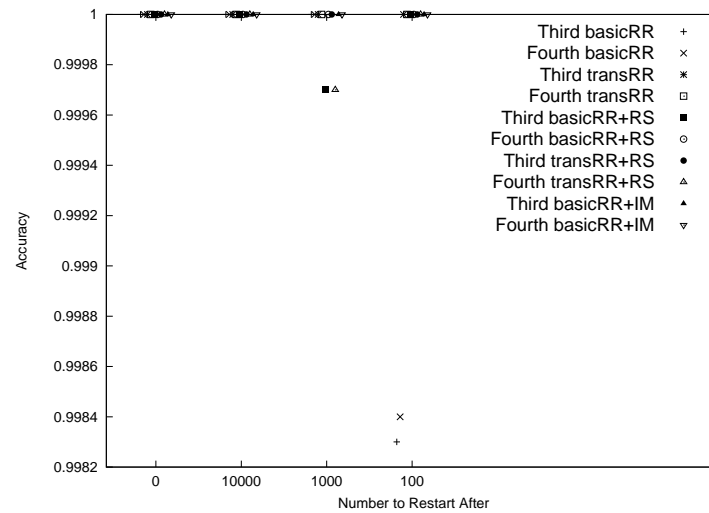


Figure B.737: Comparison of Third and Fourth Experimental Results on Problem Instance x60189_7

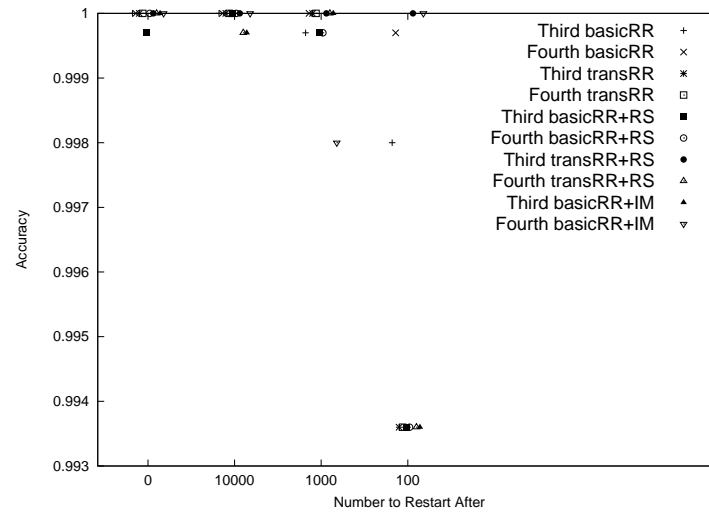


Figure B.738: Comparison of Third and Fourth Experimental Results on Problem Instance f25_305

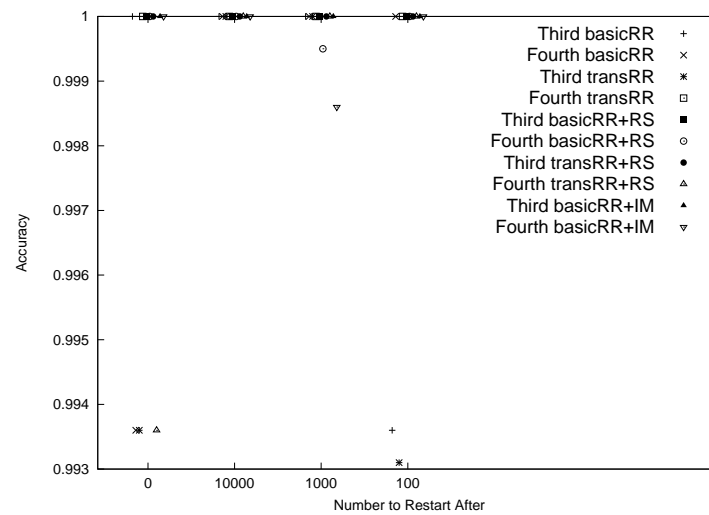


Figure B.739: Comparison of Third and Fourth Experimental Results on Problem Instance f25_400

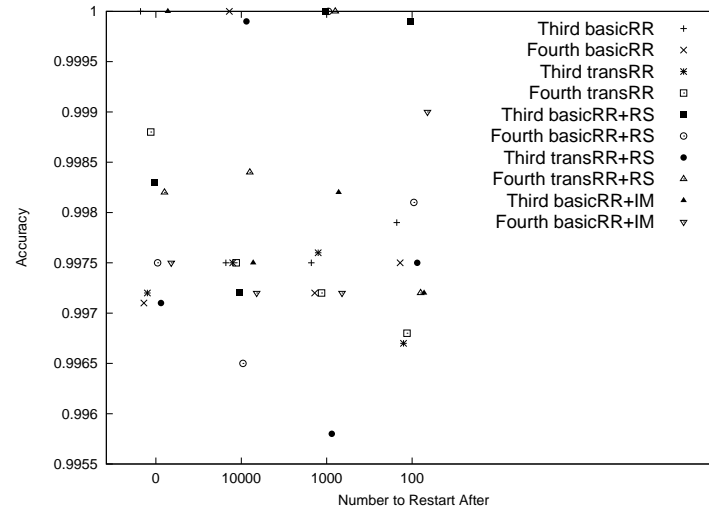


Figure B.740: Comparison of Third and Fourth Experimental Results on Problem Instance f25_500

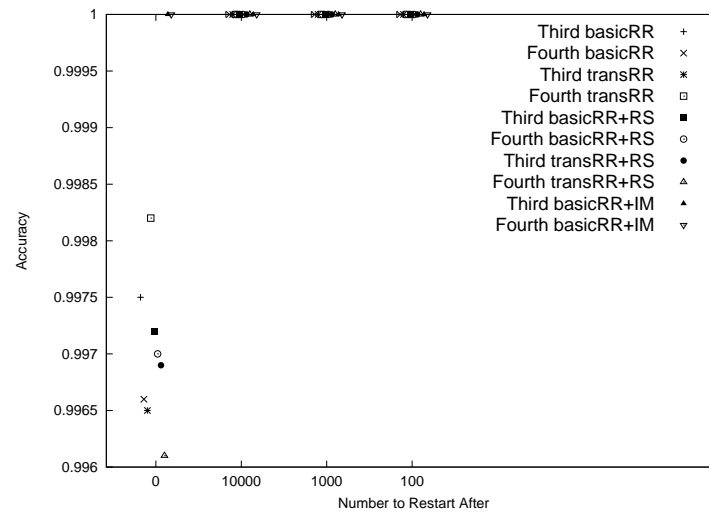


Figure B.741: Comparison of Third and Fourth Experimental Results on Problem Instance f50_315

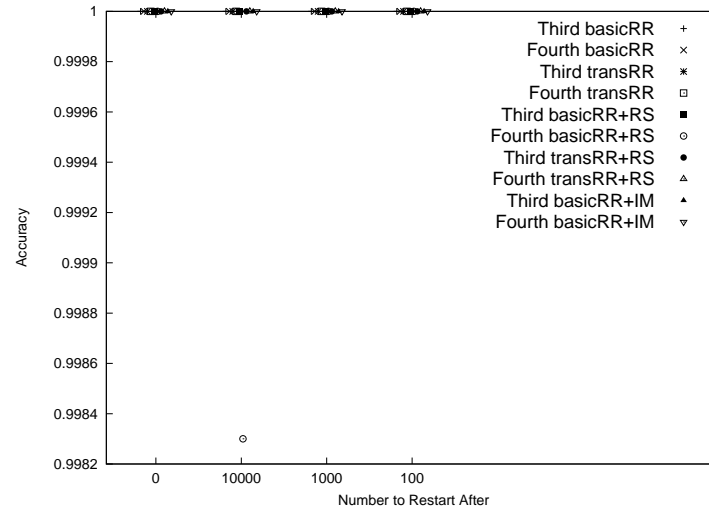


Figure B.742: Comparison of Third and Fourth Experimental Results on Problem Instance f50_412

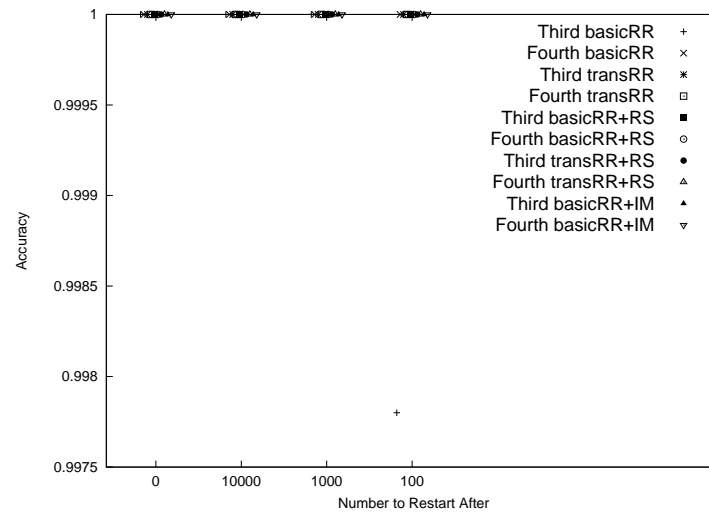


Figure B.743: Comparison of Third and Fourth Experimental Results on Problem Instance f50_498

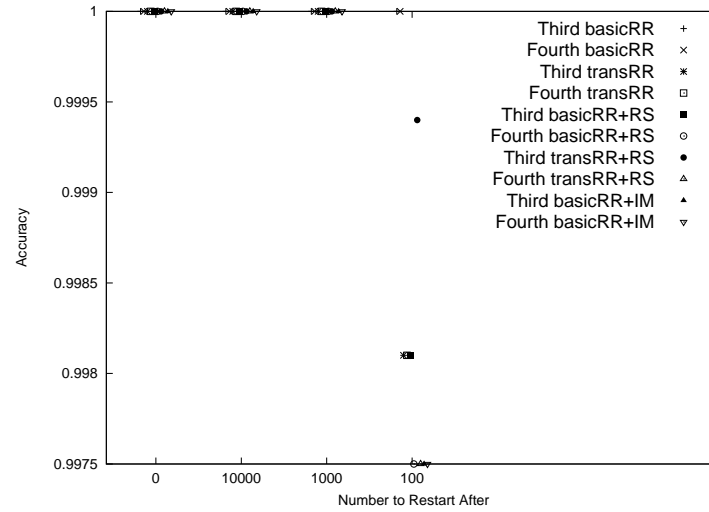


Figure B.744: Comparison of Third and Fourth Experimental Results on Problem Instance f100_307

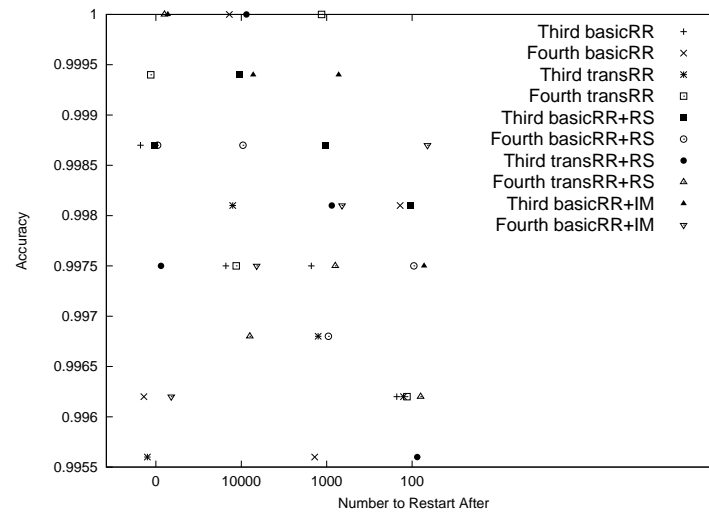


Figure B.745: Comparison of Third and Fourth Experimental Results on Problem Instance f100_415

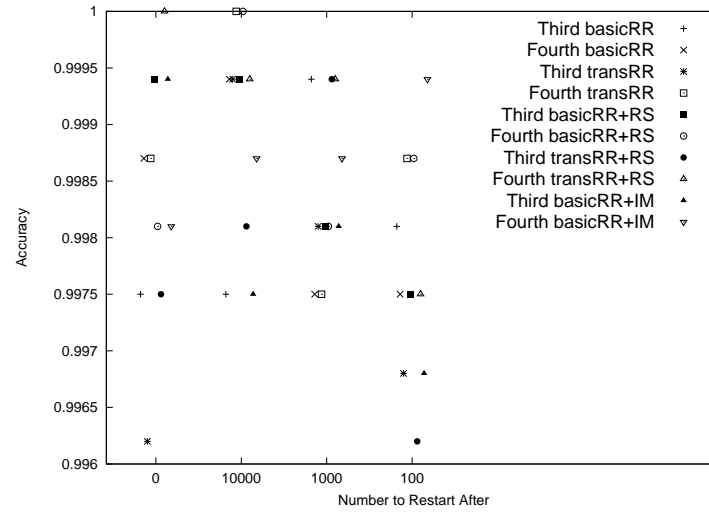


Figure B.746: Comparison of Third and Fourth Experimental Results on Problem Instance f100_512

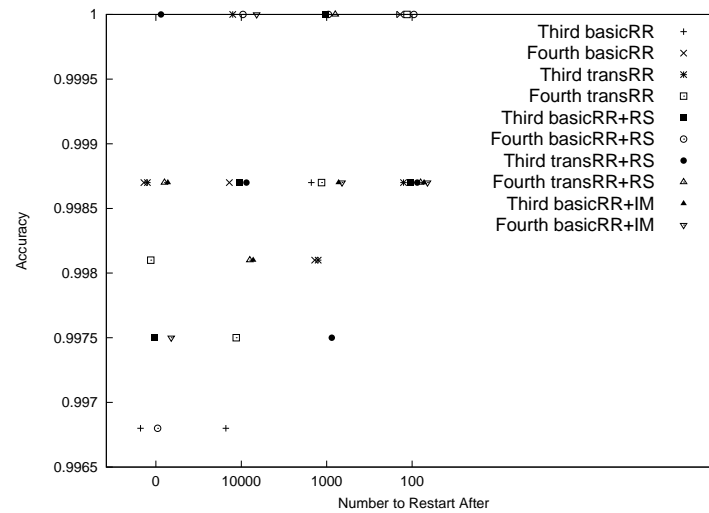


Figure B.747: Comparison of Third and Fourth Experimental Results on Problem Instance f508_354

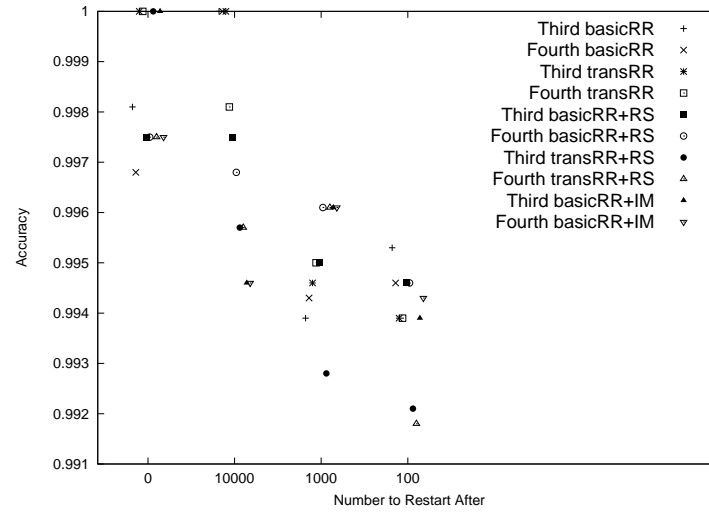


Figure B.748: Comparison of Third and Fourth Experimental Results on Problem Instance f635_350

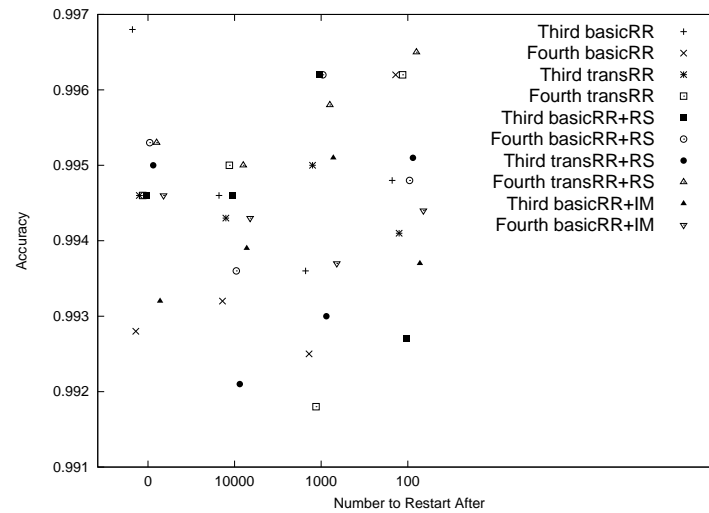


Figure B.749: Comparison of Third and Fourth Experimental Results on Problem Instance f737_355

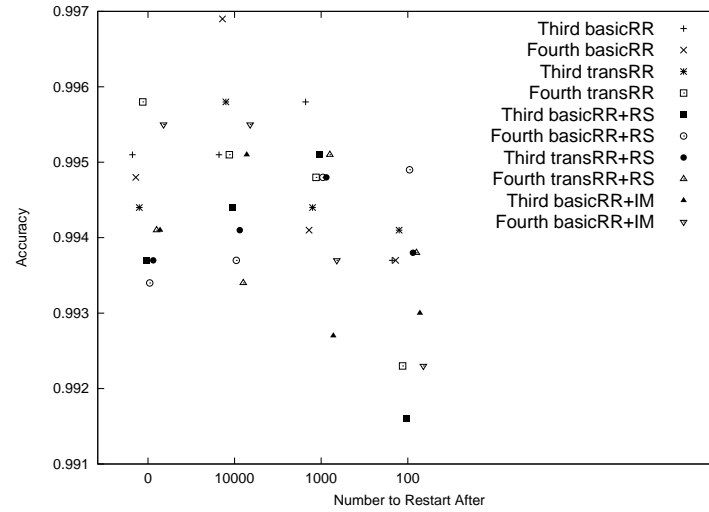


Figure B.750: Comparison of Third and Fourth Experimental Results on Problem Instance f1343_354

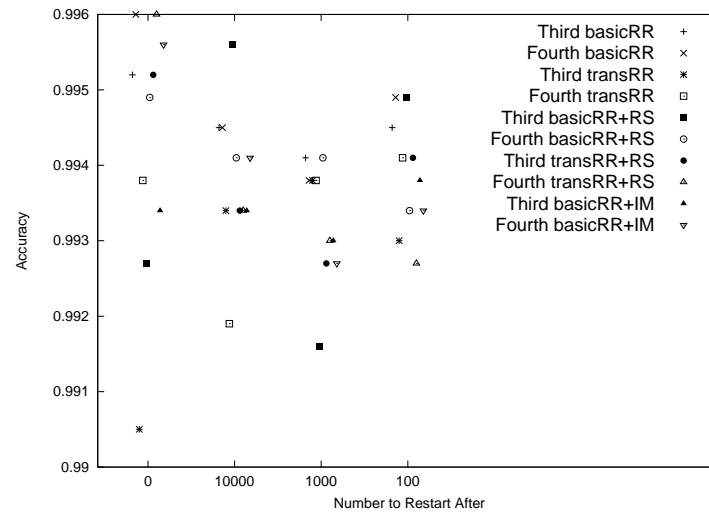


Figure B.751: Comparison of Third and Fourth Experimental Results on Problem Instance f1577_354